THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER: 3617 CENTRAL (3 lines).

Established in **ENGLAND, 1859.]**

Registered as a Newspaper.
Published Weekly at 42 CANNON STREET, LONDON, E.C.4.

TELEGRAPHIC ADDRESS: "CHEMICUS, CANNON, LONDON." [Charged as two words only.]

Established in **[AUSTRALASIA, 1885.**

No. 1,940. Vol. LXXXIX. MARCH 31, 1917.

Subscription Rate, 12s. 6d. per annum. Single Copies, 6d. each. Winter and Summer Issues, 1s. each. Post Free.

Supplied to Chemists for Sale as their own Proprietary.

Malt Extract can also be supplied in similar packages.

A distinct style can be reserved to a Pharmacist for his locality.

Specimens of labels and cartons can be forwarded on application.

Prices forwarded on request.

Allen & Hanburys Ltd., London.

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WRIGHT'S COAL TAR SOAP

yields 26% Profit on the Selling Price, or 35% on the Buying Price.

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1 gross boxes Wright's Coal Tar Soap @ 1/1½*d.*	£8 2 0
	£8 2 0

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1 gross boxes Wright's Coal Tar Soap @ 123/-	£6 3 0
Less 2½% for cash	0 3 0
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A very fine profit indeed for Toilet articles in general use and so largely advertised to the public.

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ASPIRIN

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Per 6/6 Dozen.

Per 17/- 1000.

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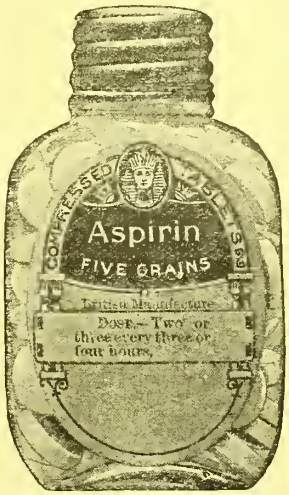

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NAME & ADDRESS ON ONE DOZEN LOTS.

British Aspirin
British Bottles
British Labels—in short
ALL BRITISH.

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Manufacturing Chemists

BRIGHTON ENGLAND

It's Bisurated Magnesia

that is being asked for everywhere

CAN YOU SUPPLY THE DEMAND?

Some Reasons why you should

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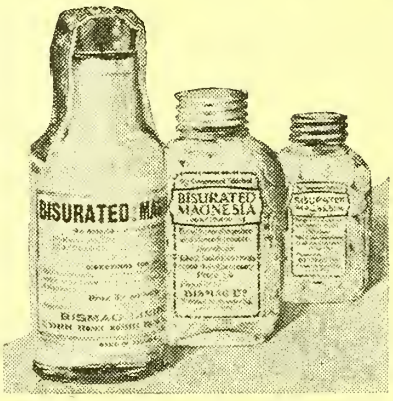
¶ The product is good and worth recommending to your best customers.

¶ We co-operate whole-heartedly with chemists, and are tireless in our endeavours to create more and more new business.



Our Guarantee

insures both the chemist and his customer against all risk of loss or disappointment.

WE GUARANTEE THE SALE, and will gladly refund cash paid for stock remaining unsold.

WE GUARANTEE SATISFACTION, and enclose in every package of Bisurated Magnesia a coupon which enables a dissatisfied user to claim a refund of the purchase price.

Write for Price List and Terms to:—

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Sole appointed distributors of genuine

Bisurated (REGD) Magnesia

THE ANTACID THAT CURES

INDIGESTION—DYSPEPSIA—HEARTBURN—FLATULENCE—GASTRITIS—WIND, Etc.

CHANGE in PRICES

As we have been compelled to raise our prices to the Trade for "Maltine" with Cod Liver Oil and the other "Maltine" Compounds, we have taken this opportunity to guarantee the Trade a better profit, and the following are the minimum prices to the Trade and the Public, as from April 1, 1917, as approved by the P.A.T.A.:—

		Per Doz. to the Trade.	Minimum Retail Price.	
"Maltine" with Cod Liver Oil	2/9 size	25/-	2/6	per bottle
" " " " "	4/6 "	42/6	4/3	"
Other "Maltine" Compounds	3/- "	31/-	3/-	"
" " "	5/6 "	57/-	5/6	"

We hope that this increase of profit may prove acceptable, and we shall be glad to send to the Trade suitable Showcards and Advertising matter for intimating to customers that the "Maltine" lines are stocked. We take this opportunity of again reminding the Trade that we gladly replace all old stock, paying carriage both ways on the exchange.

The Maltine Manufacturing Co., Ltd.

183 ACTON VALE, LONDON, W. 3.

ENTIRELY BRITISH.

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MANUFACTURED BY

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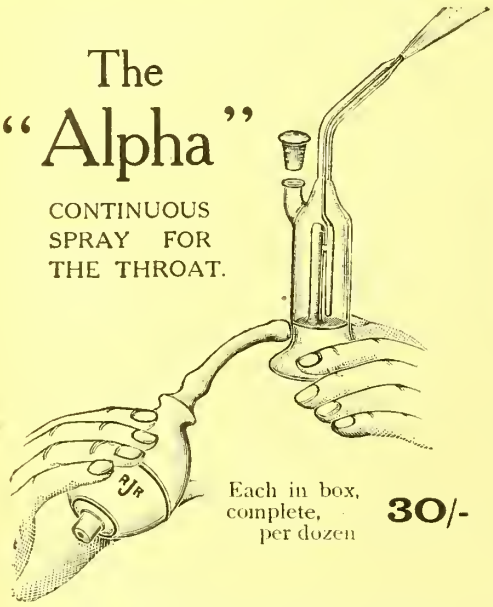
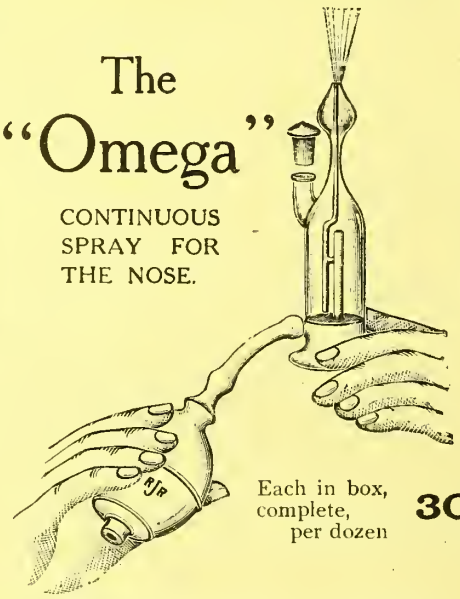
CONTINUOUS SPRAY FOR THE THROAT.



Each in box, complete, per dozen **30/-**

The "Omega"

CONTINUOUS SPRAY FOR THE NOSE.



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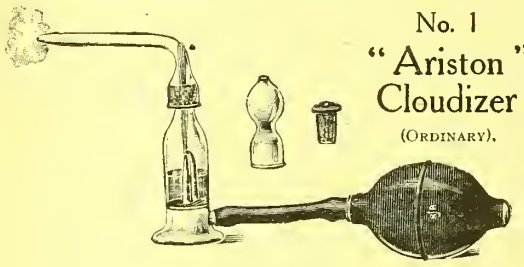
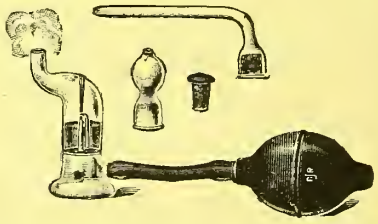


No. 1 "Ariston" Cloudizer (Ordinary).

A Direct Nebulizer, suitable for use with either oily or heavy aqueous solutions. Price, with throat piece ... per dozen **30/-**



No. 2 "Ariston" Cloudizer (Improved).

A new production with an *indirect* action. The oil is thrown on to the roof of the glass chamber with great force, and thus further sub-divided, a *Perfectly Nebulous Cloud being evolved.* Price, with throat piece ... per dozen **36/-**

Spare Pieces for Nasal, Post-Nasal or Laryngeal treatment to order ... 3/- per dozen extra per piece.

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We specialise in Throat Sprays and Atomisers of every description.

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,, ,, ...	17/-	1/9
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	Wholesale per dozen.	Retail per bottle.
Bishop's Cout Varalettes ...	11/8	1/2
,, ,, ,, ...	22/-	2/3
,, ,, ,, ...	54/-	5/6
Bishop's Kissingen and Vichy Varalettes (25 days' treatment)	54/-	5/6

These, and all other Bishop Preparations are protected at full face value, so that they are sold at uniform prices everywhere.

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'The Lancet' says: 'Of Standard Purity'

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Cinchonine and Salts
Cinchonidine and Salts
Citric Acid
Cocain Hydrochlor and Puriss
Cream of Tartar
Creosote Carbonate
Formaldehyde
Gallic Acid
Glycerophosphates
Guaiacol Carbonate
Heliotropin
Hexamine
Homatropine
Hydroquinone
Isarol (best Ichthyol substitute)
Lithia Carbonate
Lithol (Ichthyol substitute)
Mercurials
Methylene Blue Medicinal
Methyl Salicylate
Peppermint Oil
Pepsines, Pancreatin, Peptone and other digestive Ferments
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Phenazone
Pyrogallic Acid
Potassium Sulpho-Guaiacolate
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Quinine and Salts
Quinine Ethyl Carbonate
Salicylic Acid
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Sugar of Milk
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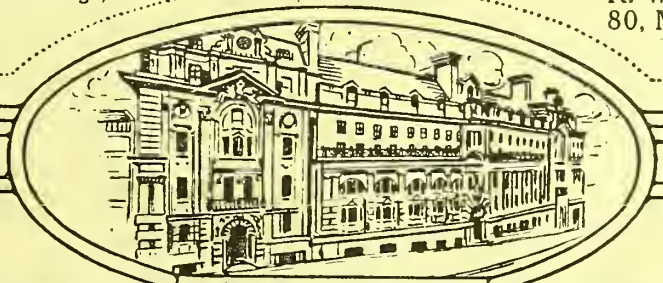
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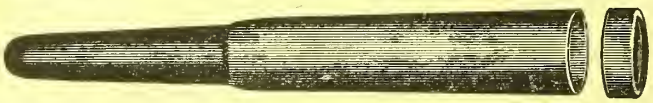

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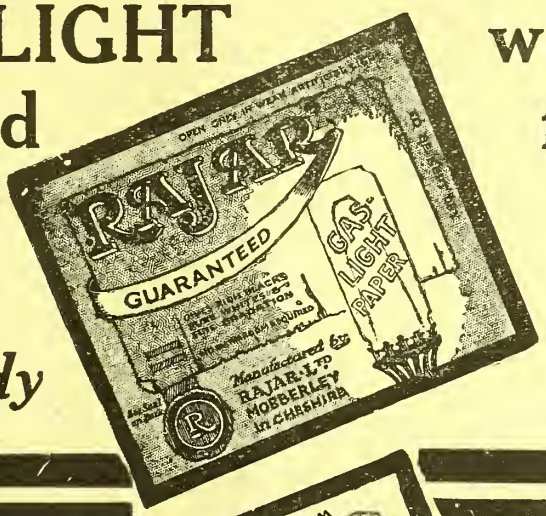

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PACKED IN ATTRACTIVE TINS FOR COUNTER DISPLAY.

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PACKED IN DECORATED TINS TO RETAIL AT

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SHOWCARDS SUPPLIED.

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Tonic, Restorative, Digestive Wine.

Known throughout the World, and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children and the Aged.

DOSE: One Wine-glass after the two principal Meals.

Recommended by—
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"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie Rostan Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1873.

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To be obtained from all Wholesale Druggists.

"Prana" Sparklets.

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MESSRS. AERATORS, LTD., regret that it has been, and will be for some time yet, impossible for them to meet demands for the "Prana" Sparklet Syphons and Bulbs, not only owing to other urgent war work, but also to the restricted supply of materials and the large demands (which must be considered preferentially) by the Expeditionary Force Canteens, Red Cross Society, &c. &c.

As regards "D" Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

AERATORS LTD.,
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Maw's Page

S. MAW SON & SONS (C.P.O. BOX No 54) 7-12 ALDERSGATE ST. LONDON E.C.

NUMBER 285 MAR. 31, 1917

CABLES ELEVEN LONDON

CODE A·B·C 4TH & 5TH EDITION

C. TRENTHAM MAW, J.P.
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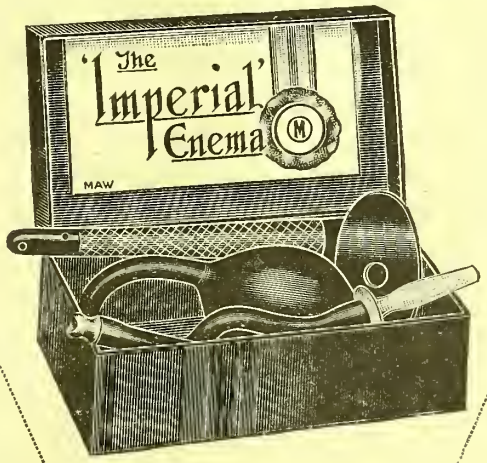
A New Line in Enemas.

THE "IMPERIAL."

Made of Black Cut Sheet Rubber, fitted with bone rectal pipe, elastic gum vaginal pipe and shield. Put up in strong hinged cardboard box.



33/-

PER DOZ.

USUAL DISCOUNT.

WE also stock excellent selling lines of other Enemas. The "Seamless" full-size Black, in hinged dome-top box, at 45/- per dozen. The "Parex" regd. Large Bulb, in grey hinged dome-top box, at 37/6 per dozen. The "Parex" regd. Sterilizable, in tin case with clips for fittings, at 37/6 per dozen. The "Family" Black Enamelled, in hinged dome-top box, at 35/- per dozen. The name of Maw associated with these goods is a guarantee of excellence.

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Finest qualities, Red, Yellow, and White. Guaranteed B.P.

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Buy from one of the Oldest Houses in the Trade.

Write for Prices. ESTABLISHED 1794.

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PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

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Newcastle-on-Tyne and Cardiff.

THE COLOGNE OF THE WORLD!!!

ITS DELIGHTFUL FRAGRANCE, REFRESHING AND MEDICINAL PROPERTIES

EXCEL

ALL OTHER BRANDS.

WE ARE OUT TO SMASH THE GERMAN TRADE. WE HAVE THE

COLOGNE

TO DO IT.

NO SYNTHETICS which have such deleterious effects on the delicate organs of the head are used in its manufacture.

WHOLESALE PRICES.		PROTECTED PRICES.
2 oz. bottles	13/6 per dozen.	1/6 per bottle.
4 ,, ,,	24 6 ,, ,,	2/9 ,, ,,
8 ,, ,,	49/- ,, ,,	5/6 ,, ,,
Pints ...	98/- ,, ,,	11/- ,, ,,

Discount according to order.

Sample 4 oz. Bottle ONLY SENT ON RECEIPT OF P.O. 2/3.

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Profits For You

That's what you're in business for. Handle the line of Toilet Preparations which sells quickest and at the largest margin of profit.

INGRAM'S OFFER.

½ Doz. Milkweed Cream	Retails for 2/- each	(2.00)	8/-
½ Doz. Velveola Souveraine (Face Powder)	,, ,, 2/- ,,	(2.00)	8/-
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½ Doz. Rouge...	,, ,, 2/- ,,	(1.00)	4/-
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Delivered prepaid Parcel Post. We will send advertising matter and samples packed with the goods.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, asking them to call at your store and get free our Guest Room Package, containing one each of the above in sample sizes, including perfume.

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BRITISH MAKE, SUPERIOR TO PRE-WAR GERMAN OR AMERICAN MAKES

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JOHN BELL & CROYDEN, Ltd.,
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Specialise in Ampoule Filling.

CHEMISTS' SPECIAL FORMULÆ PREPARED ACCORDING TO REQUIREMENTS.

Special Quotations for Large Quantities.
SEND FOR PRICE LIST.

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A high-grade Toilet Soap of marked Antiseptic properties.
Non-irritating.
Agreeably perfumed.
Lathers in hard water.
Assists the complexion.
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Invaluable in the Nursery.

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Chemists should write for terms.

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Distilled by M. Gattefossé et Fils.

Guaranteed Absolutely Pure under Analysis by Mr. Ernest J. Parry, B.Sc., F.I.C., F.C.S.

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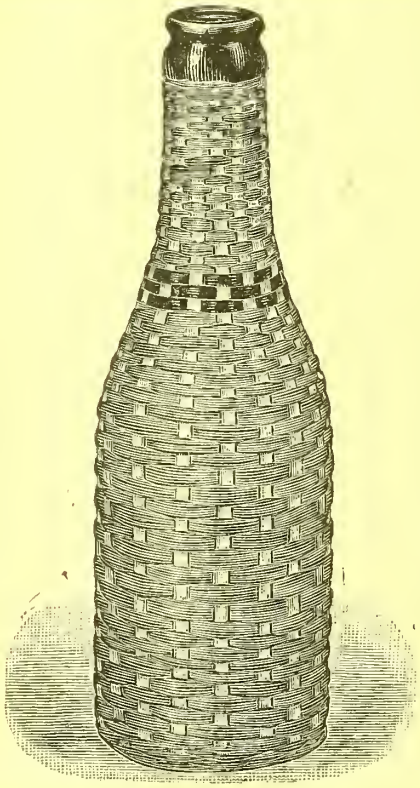
ROPEMAKER ST., FINSBURY, LONDON, E.C.

Wickered Bottles

FOR THE TRADE.



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No. 77 BRITISH Eau de Cologne

In Square Bottles

2 oz.	...	11/- doz.
4 ,,	...	21/6 ,,
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½ pint	...	34/6 doz.
1 ,,	...	65/- ,,
2 ,,	...	122/- ,,

Write for Samples. Showcards supplied.

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WILLIAM TOOGOOD, Ltd.,
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"ERASMIC" TOILET CREAM

Ref. No. 320.

SPECIAL OFFER.

With all orders for

	£	s.	d.
3 dozen 1/- pots, at 8/6 per dozen -	1	5	6
less 5 per cent. discount		1	3
	£1	4	3

we give six 1/- pots gratis.

A Profit of 73 per cent. on cost price.

Send for full particulars at once, as this special offer is likely to be withdrawn shortly.

"ERASMIC," Perfumers, WARRINGTON.

See also page 22.

THE PROFITS ON

FIRST-CLASS TOILET GOODS

are not merely the immediate returns that you receive in Treasury Notes, but also those things that go to make Goodwill—a Reputation for Value, a lasting Friendship between Yourself and your Customers, etc. These, backed up with the ESSONA GUARANTEE to take back any goods that fail to give complete satisfaction, make Business a real Pleasure and the Cash Returns sure.

Post this Advertisement with your Name and Address written here, and we will send you our New Illustrated List of Toilet Specialities Post Free.

ESSONA PERFUMERY CO.

English Perfumers, Wimbledon, S.W. 19.

Dinkie
The Dainty Deodorant

A new and attractive line that is sure to enjoy good sales. A greaseless Cream that takes the odour out of perspiration. Daintily packed in opal jars. Ask your wholesaler.

DECOLTENE
The liquid hair remover
(originally known as Decolene)

A new idea in depilatories. Simple and safe to use—effective in use. Pleasant and harmless. Invaluable during the vogue of the décolleté gown. Daintily packed. Ask your wholesaler.

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Satisfaction Guaranteed or Money back

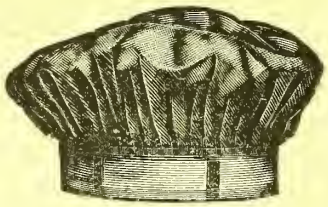
DINKIE:
Advertised, and min. Retail Price **2/6**
Trade 20/- doz.

DECOLTENE:
Advertised, and min. Retail Price **3/9**
Trade 30/- doz.

Monthly Accounts nett. with Order. 5% Cash
Carriage Paid on £1 lots. Particulars on request.

Trade Mark

ROBARTES LTD.
128 Jermyn Street, London, S.W.
Telephone: Gerrard 3672



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WE OFFER
THE LATEST PATTERNS IN
SOLID RUBBER OR PROOF

BATHING CAPS

ALL BRITISH.

F. SCHUTZE & CO., Ltd.
Caledonian Market, London, N.

Two of the World's Face Powders.

POPULAR EVERYWHERE.

BOURJOIS'
Eyebrow Pencils,
Rouges, Perfumes,
Soaps, etc.,
always command a ready sale.

Bourjois' Java Powder.
Price 9/5 doz.; 12 doz. 8/10. P.A.T.A. 1/- per box.

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SOLID FACE POWDER (Poudre Compacte)

BOURJOIS of PARIS is the POWDER HOUSE.

Our Solid Powder, with Puff, **No. 65, IS THE BEST.**

Made in Seven Tints. Rose, Naturelle, Rachel, Blanche, Rosette Brun, Ocree, and Mauve. **7/- per doz.**

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Important Notice!

ALTERATION of PRICES of EDWARDS' "HARLENE."

Edwards' Harlene, Limited, Proprietors of "Harlene for the Hair," beg to announce that as and from

MARCH 1, 1917,

the Retail Prices of "Harlene" to the public will be advanced as follows:

1/-	size increased	to	1/1½
2/6	,,	,,	2/9
4/6	,,	,,	4/9

The exceptional increase in the cost of ingredients used in the manufacture, also bottles, labour, &c., necessitates this step being taken.

NEW WHOLESALE TERMS:

1/1½	size	12/6	per	dozen.
2/9	,,	30/-	,,	,,
4/9	,,	50/-	,,	,,

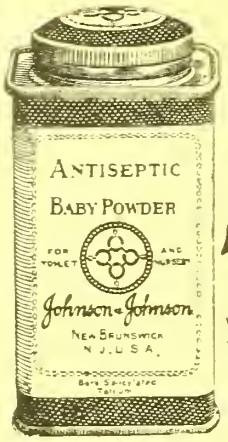
Less 20 per cent. Discount.

Members of the trade are also requested to note that the minimum selling prices to the public will be as under:

1/-, 2/5 and 4/-.

EDWARDS' "HARLENE," LTD.

20, 22, 24, 26 Lamb's Conduit St., London, W.C.



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MANUFACTURED BY

Johnson & Johnson.

We wish to warn our Customers, so that they may be on their guard, that our package is being imitated. This step, which is so easy, is an undignified and shabby attempt to rob us of our goodwill.

WARNING.

The contents cannot be imitated, and the Trade Mark cannot be imitated; and we would ask those Customers who have handled this preparation for a quarter of a century, with every satisfaction to themselves and to their clients, to resent this method of copying other firms' productions by insisting on having the original package bearing the registered Trade Mark, which is the guarantee of quality.

Look for the Name and Trade Mark

JOHN TIMPSON & CO., Ltd.,
104 Golden Lane,
LONDON, E.C.

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do. 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

Sole Proprietors—

C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.

LOFTHOUSE & SALTMER, Ltd.

Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.	5/6
* " " " " "	1/2	10/-
* " " " " bottles in cartons	1/6	12/-

**Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema 13/6 per dozen boxes net.

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

STIPENDUM CORK STOPPERS

in all sizes suitable for KALIS, CITRATES, DISPENSING, and all FLUIDS.

STIPENDUM COVERED POTS

THE BEST FOR FACE AND TOOTH POWDERS, PASTES, AND OINTMENTS.

GREASE PROOF.

For Samples & particulars apply to

The Stipendum Stopper Co.
1 Newman Street,
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Tel. No. 3769 GERRARD.

Liquid Paraffin B.P.

Petroleum Jelly

White Oils

Half-White and Coloured Oils

STERNS LTD.,
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SUPPORT HOME INDUSTRIES.

Estd. 1777.

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BUY KENT'S BRUSHES.

Diary 1917, pp. 108, 109.
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NO PICTURE can do justice to the artistic appearance of

SEMREH
SELF-FIXING
BOTTLE CAPS.

You must see them to appreciate their merit. Details from

TH V SCOSE
DEVELOPMENT CO., Ltd.
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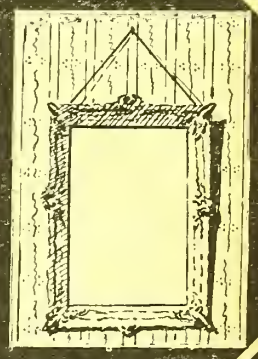


Corks for you

No persistent snapping off; no annoying breakages—the "Mitchell" user goes on his way confident and satisfied.

A few Chemists still say to the "odds and ends" man, "Send me some Corks," but the Chemist of judgment says, "Mitchell's Corks for *me*"—a little detail perhaps, but sound business sense. *So* good that *you* ought to use them.

N.W. MITCHELL & SONS LTD.
"The Cork Firm," LIMEHOUSE

WRITING INK POWDER

As supplied to Govt. Depts. and the principal Railway Cos. Saves 98% Freight. Suitable for any Climate.

ALSO
WRITING INKS,
COPYING INKS,
GUMS, PASTES,
INK POWDERS,
STENCIL INK.

T. WEBSTER & Co.
Diamine Works,
LIVERPOOL.

"Erasmic" WINDOW DISPLAY

SPECIAL OFFER.

BONUS.

¼ gross "Elite," loose .... Selling value 13/6

	£	s.	d.
2 gross "Peerless" or "Elite," loose, at 42/6 =	4	5	0
1 " " " " boxed, at 44/- =	2	4	0
	6	9	0
Less 5 per cent.		6	5
	£6	2	7

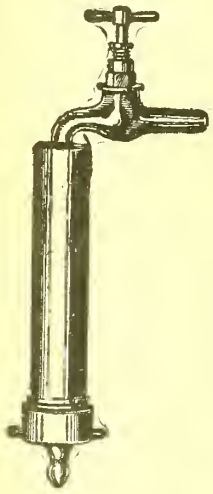
SHOWCARDS, WINDOW BILLS & PRICE TICKETS SUPPLIED.

RETAIL PRICE has been increased from 4d. per tablet, 1/- per box, to 4½d. per tablet, 1/1½ per box.

March 19, 1917. **"ERASMIC." Perfumers, WARRINGTON.**

See also page 17.

PURE DRINKING WATER.



The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT STATEMENT:

Wherever the **PASTEUR FILTER** has been applied, **TYPHOID FEVER** has disappeared.

WRITE FOR LIST B.

Sole Makers:

The British Pasteur Chamberland Filter Co.

5 WHITE STREET, FINSBURY, LONDON, E.C.

3 DOZ. 2D. PACKETS

"WHITEAGAIN"

STRAW HAT CLEANER

On Attractive Showcard.

CARRIAGE **4/-** PAID.

FOUR CARDS **13/8.** CASH WITH ORDER.

THE BEST 2D. STRAW HAT CLEANER ON THE MARKET.

IT NOT ONLY CLEANS, BUT WILL MAKE OLD STRAW HATS WHITE AND LIKE NEW AGAIN.

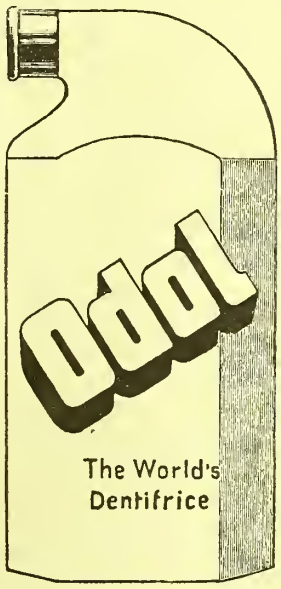
KITCHENER CO. (Sole Proprietor, ROBERT BLACKIE)

168 TOWER BRIDGE ROAD, LONDON, S.E.

AN ANNOUNCEMENT

CONCERNING

NOW BRITISH



Odol

OF INTEREST TO EVERY CHEMIST

In December of last year the Controller appointed by the Board of Trade sold Odol by public auction. It was purchased by Sir Richard A. Cooper, Bart., M.P., whose firm, William Cooper & Nephews, is now manufacturing Odol at its Berkhampstead Laboratories.

Odol is now British owned, and the best British brains and enterprise will henceforth be employed in the manufacture and sale of this very efficient and popular dentifrice. It is hoped the Drug Trade will lend its co-operation to revive the old demand for this undoubtedly meritorious preparation.

An appropriate advertising campaign is being prepared, which will be launched as soon as sufficient stocks to meet the expected demand are available.

Write for Trade Terms, and place your order early to ensure quick dispatch.

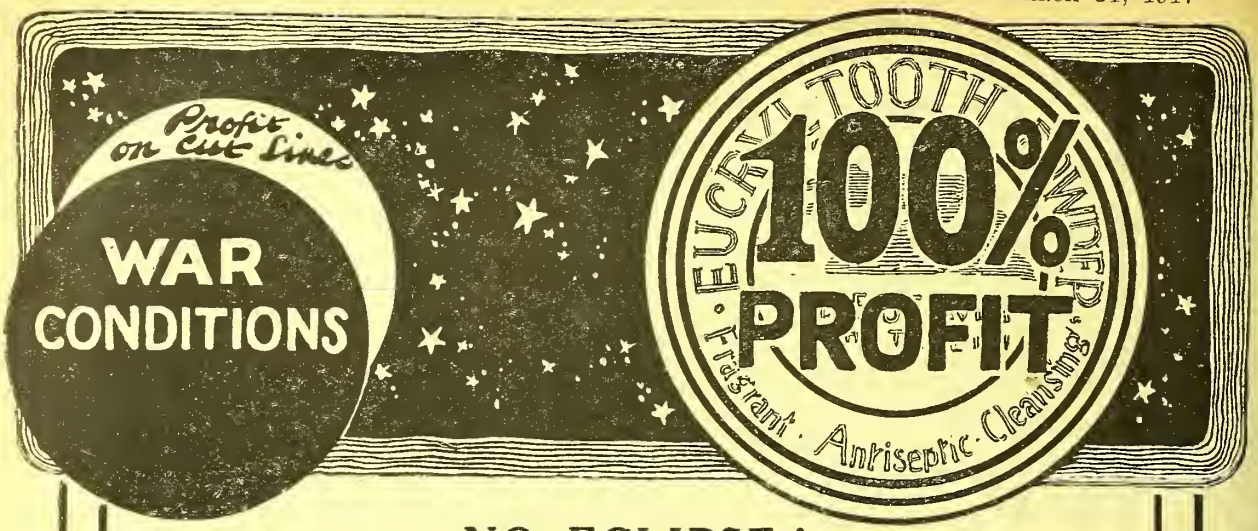
NEW SLIDING SCALE OF DISCOUNTS.
ODOL IS ON THE P.A.T.A.

Address all communications to

Odol Chemical Works, Berkhampstead

(Sir R. A. COOPER, Bt., Sole Proprietor.) Telephone: 3 BERKHAMPSTEAD.

C. V. & S.—1.



NO ECLIPSE !

Despite War conditions, the profit on EUCRYL TOOTH POWDER has suffered no eclipse in its return to *you*, for you are still able to enjoy the generous terms offered. This has only been made possible by the splendid support Eucryl enjoys from the whole of the Chemist fraternity.

EUCRYL TOOTH POWDER

is a trump card amongst Toilet lines because through years of popularity it has established its position firmly in the Public esteem. Therefore it has become a stock line to handle and sells itself accordingly.

IF YOU ARE SHORT OF STOCK FILL IN THE COUPON ATTACHED AND PROFIT BY THE 100 % BONUS TERMS.

EUCRYL LIMITED,

138 Borough High Street,
SOUTHWARK, S.E. 1.

COUPON.

To
Messrs. EUCRYL, Ltd.
138 Borough High St., S.E. 1.

Please send me 6 doz. 7d. tins Eucryl Tooth Powder, at 4/8 doz., with Special War Bonus of 2½ doz. 7d. extra & free of charge, for which I enclose remittance value 28/-

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF 1916 MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL." Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

Guaranteed Fever Thermometers

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BROOKLYN, NEW YORK, U.S.A.
Est. 1892.
Member "The National Association of Manufacturers, N.Y."

"Corruganza" SEAMLESS Ointment Boxes.

GREASEPROOF. BRITISH MADE.

Better than the old Willow Boxes, because they are stamped out of one piece, and the bottoms cannot fall out.

MILLIONS SOLD ALREADY. REPEAT ORDERS DAILY.

Send at once for Price List (Wholesale or Export only) to the Manufacturers—

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THE BOMBAY AGENTS' COMPANY,

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with established Offices in Calcutta and Colombo, are open to accept further sole agencies for India and Ceylon. This Company is owned by a well-known European, who has exceedingly good connections all over India. Manufacturers of Patent and Proprietary Articles, Chemicals, Drugs and Galenicals, cannot obtain better representation in India than that now offered. CORRESPONDENCE INVITED.

ALL CHEMISTS SHOULD STOCK ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation.

"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2½d.; Boxes of 13 Packets 1/3.

Order through your Wholesale Drug House.

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Wholesale Prices on Application

CHEMISTS' SHOPFITTINGS

WANTED.—Every Chemist requiring Shopfittings to send for my estimate; you *can't* do better. I shall be pleased to send you rough sketches free on receipt of particulars. Over 30 years' experience.

Glass Showcases, Drugfittings, Dispensing Screens, Window Enclosures, Glass Shelves, Wall Cases, Perfume Cases, Plate Glass Front Counters, Drawers, &c., at lowest prices.

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The Chemists' Working Shopfitter,

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FINE LEAF GELATINE
PURE CALF

"ALBION" BRAND

(In 1 lb. Packets.
112 x 1 lb. Packets to Case.)

FINE CRYSTAL GELATINES.
PURE SKIN GELATINES.
POWDERED GELATINES.

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Telephone: 4978 Avenue.

OURY, MILLAR & CO.,
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FREEMANS
REAL TURTLE Soup Cubes
"Ready to Serve."

Made from the real rich meat of selected West Indian Turtles—so that real Turtle Soup, once the privilege only of the rich, is now a delicacy easily accessible to every household. No other soup is so nourishing and delicious.

Made in a minute with boiling water.

To retail in 1/- Cartons containing 4 Cubes.

THE WATFORD MFG. CO., LTD.,
Makers of
Freemans Table Dainties, Boisseliers (Boy-sel-e-a) Chocolates, and Vi-Cocoa,
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AN IDEAL TONIC FOOD

of proved utility in Nervous Exhaustion and Wasting Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

"It is of high nutritive value, enhanced by the presence of assimilable phosphates."—*The Lancet.*

The pleasant flavour of VIROPHOS is much appreciated by patients.

PROFIT ON VIROPHOS.

No. 1 (1½ oz.)	Retail 1/3 per tin,	9/- per doz.		
No. 2 (3½ oz.)	,,	2/-	,,	14/6 ,,
No. 3 (6½ oz.)	,,	3/6	,,	24/- ,,
No. 4 (13 oz.)	,,	6/-	,,	42/- ,,

For Export, No. 3 size, in bottles at 27/- doz. is recommended.

Stocks held by
Messrs. SANGERS; MAY, ROBERTS & Co., &c.

Introduced and prepared only by
C. J. HEWLETT & SON, Ltd.
CHARLOTTE STREET : LONDON, E.C.

B. 407a

There is no better Flask made than the

"ALL BRITISH" VACUUM FLASK,

of which not only the protective outer casing but the essential glass vacuum bottle are

MADE IN ENGLAND.

SOLE MAKERS—

AERATORS LIMITED

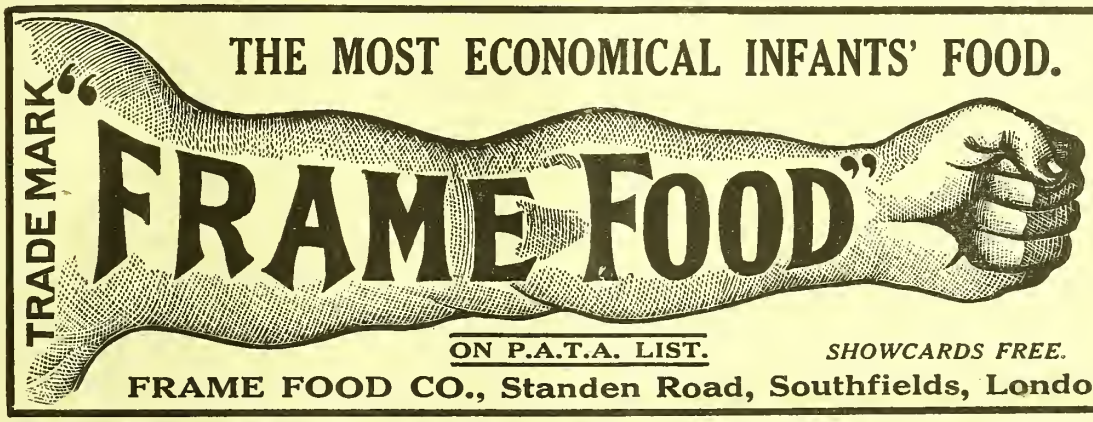
"Prana" Sparklet Works,
UPPER EDMONTON, LONDON, N.

BRAND'S ESSENCES
OF
BEEF, MUTTON and CHICKEN

possess great nutritive and restorative powers, being immediately digested and absorbed by the stomach. Although effective stimulants in physical and mental exhaustion, they contain no wine or other deleterious admixture.

BRAND & Co., Ltd., MAYFAIR WORKS, VAUXHALL, LONDON, S.W.

THE MOST ECONOMICAL INFANTS' FOOD.



ON P.A.T.A. LIST. *SHOWCARDS FREE.*

FRAME FOOD CO., Standen Road, Southfields, London.

Do You Sell
Sister Lauras Food?

The question is often asked nowadays. The Chemist who does not stock Sister Lauras Food is missing a good line.

Sister Lauras Food is achieving great success as a preparation for weakly babes and for invalids and the aged.

It makes milk digestible and is invaluable in cases of malnutrition.

It is a thoroughly reliable line and one that brings a handsome return.

Price 1/- & 2/6 per tin. *Samples and advertising matter free on application.*

SISTER LAURAS INFANT FOOD CO., Ltd., 156 Vincent Street, GLASGOW.

HEDLEY'S
MALTED MILK
(CITRATED).

BRITISH THROUGHOUT.

THE IDEAL FOOD for Infants, Invalids, and all who suffer from weak digestion.

HEDLEY'S MALTED MILK, being Citrated, the formation of Curds by the Rennet of the Stomach is prevented, so that it practically DIGESTS ITSELF.

ALL CHEMISTS SHOULD STOCK IT.

QUICK SALES. GOOD PROFITS. SATISFIED CUSTOMERS.

Sold in Tins, 1/4, 2/6, and 4/9.

ON THE P.A.T.A. LIST. *Wholesale terms on application.*

HEDLEY'S MALTED MILK CO.
57 & 59 LUDGATE HILL, LONDON.

SUGAR OF MILK

TRADE HMS MARK.

MADE IN HOLLAND

THE BEST IN THE WORLD.

Always of the purest standard and corresponding with the requirements of any Pharmacopœia.

N. V. Hollandsche Melksuikerfabriek, Amsterdam.

FINEST QUALITY
MILK POWDER. CASEIN.

Inquiries and Orders Solicited.

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LONDON OFFICE:
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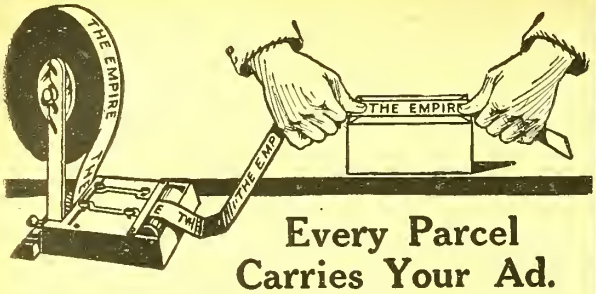
DIABETES

CHELTINE FOODS CO., CHELTENHAM.
FLOUR, BISCUITS, BREAD, FOOD, Etc.
Highly Recommended by Medical Profession
INFANTS' FOODS packed under Chemists' "OWN NAMES."
All particulars on request.



Every Parcel Carries Your Ad.

USE the Empire Roller Tape Moistener to seal your parcels, and have the entire length of the coil of gummed tape printed with your name or trade mark—thus every parcel will carry your Ad. into the homes of your customers.

String is costly, and more and more difficult to obtain. Sealing Wax is not always secure but Gummed Tape seals parcels quickly, neatly and securely.

Why not send us a card NOW for fuller particulars?

JOHN GOSHERON & CO.
1-3 Golden Lane, London, E.C.
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6 St. Andrew Street, Dublin.

Monsanto Chemical Works,
ST. LOUIS, MISSOURI, U.S.A.

Manufacturers of

ACETANILID.

ACETPHENETIDIN (PHENACETIN). **CAFFEINE** (Pure Alkaloid).

CHLORAL HYDRATE. COUMARIN.

GLYCEROPHOSPHATE OF CALCIUM.

Glycerophosphate of Sodium
Pure Crystals.

Glycerophosphate of Sodium
Pure Crystals Powdered.

GLYCEROPHOSPHATE of SODIUM 75%
Glycerophosphate of Potassium 75%
Also Glycerophosphate of Iron, Manganese, Magnesium.

Phenolphthalein. Saccharin. Vanillin.

New York Branch: Platt and Pearl Streets.

ATKINSON & BARKER'S ROYAL INFANTS' PRESERVATIVE

ON P.A.T.A. LIST.

Prices and Terms on application to R. BARKER & SON, 11 Russell Street, C.-on-M., MANCHESTER.

DOES NOT CONTAIN any SCHEDULED POISON.

Cable Address: "CELAITCH NEW YORK."

CHAS. L. HUISKING,
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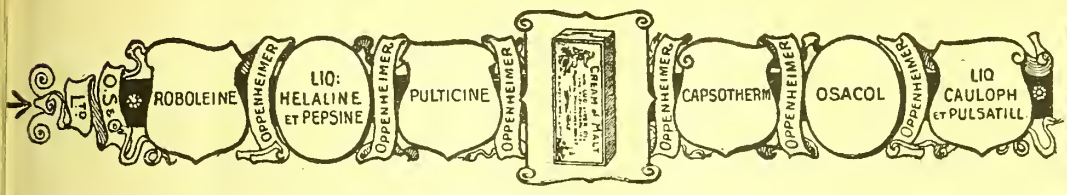
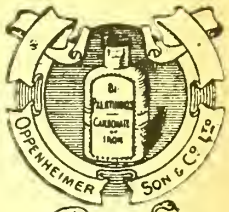
Broker and Commission Merchant.

DRUGS, CHEMICALS, ETC.

Buying and Selling Agent for leading Houses in all parts of the World.

Weekly Market Reports Mailed on request of Wholesale Buyers only.





Two Excellent Preparations on the P.A.T.A.

ROBOLEINE

A delightfully palatable admixture of Malt, Red Bone Marrow, Juice of Calves' Rib Bones and Cream, with Hypophosphites of Sodium, Calcium, and Potassium, which has been adopted after severe clinical trials by many of the largest institutions in the country as an alternative to, and improvement on, Malt and Cod Liver Oil in palatability, digestibility, and influence on weight and general condition. Maltose, Diastase and Cream contained in the Cream of Malt account for its high value as a food digestive; Lecithin and Cholesterin from the calves' bones are both valuable metabolic agents and nerve foods; Calcium, Sodium, Potassium, and Phosphorus are elements necessary for building up and renewing wasted tissue; all these combine together to make it the finest preparation of its kind. It is invaluable as a reconstructive for reduced vitality caused by minor nerve troubles, worry and overwork, infantile diseases (croup, rickets), wasting diseases of all kinds (phthisis, anæmia), and as a food when convalescence is slow and difficult.

As a popular side line this preparation has many advantages.

1. **Yields good protected profits.**
2. **Highly recommended by the Medical Profession.**
3. **Supplied to Institutions at special rates in special containers.**
4. **Samples and literature sent to local Medical customers.**
5. **Is an improvement on Malt and Cod Liver Oil in taste, therapeutic value, and standard quality.**

OSACOL JELLY

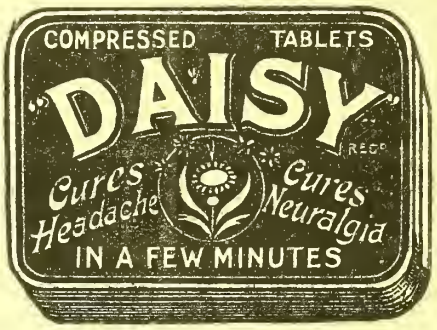
An ideal palatable Laxative composed of 75 per cent. Petremol, a Russian Paraffin of exceptional quality, emulsified with our celebrated Cream of Malt and Honey, and slightly acidified to remove the unpleasant blandness usually associated with paraffin preparations. It acts as a mechanical lubricant, has no griping effect, is gentle and constant in action, of appropriate viscosity, and has been found of the utmost use in the constipation of pregnancy, of delicate patients after operations, and children.

A preparation of this nature is now in considerable demand, especially where liquid paraffin is rejected by the stomach. It yields good protected profits and can be recommended with confidence as a noster prep.

Write for special window show and agency terms showing 65 per cent. profit.

OPPENHEIMER, SON & CO., LTD.,
179 Queen Victoria Street, E.C. 4.

"DAISY" TABLETS



SPECIAL WHOLESALE PRICES.

Quantities of not less than	1	dozen tins			13/-	per dozen	net.
"	"	"	3	"	12/6	"	"
"	"	"	12	"	12/-	"	"

Each tin contains 25 Tablets.

Minimum Retail Selling Price, **1/3** per Tin.

ORDER YOUR SUPPLY NOW.

DAISY LTD. Mammoth Works, LEEDS.

ESTABLISHED 1893. *TELEGRAMS: "DAISY LEEDS."*

¶ B. W. & Co. are making many products which before the war were unobtainable except from alien sources.

¶ More than this, the B. W. & Co. products are British not only in name but in "thoroughness."

¶ They aim not merely to replace enemy products but to excel them in quality.

¶ A few notable examples are here given.

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Benzamine Lactate, B.P.
and
TRADE MARK 'WELLCOME' BRAND
Benzamine Hydrochloride

These salts replace Eucaine Lactate and Hydrochloride.

TRADE MARK 'WELLCOME' BRAND
Atropine, B.P.
(Pure Alkaloid)
and
TRADE MARK 'WELLCOME' BRAND
Atropine Sulphate, B.P.

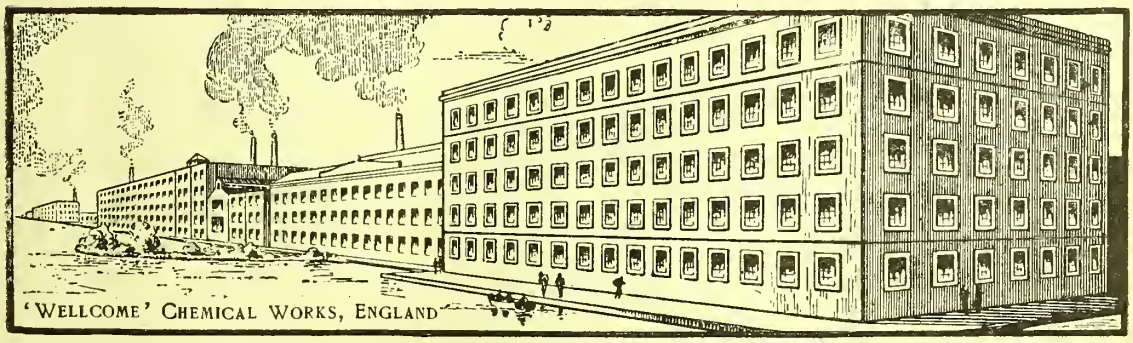
Conform to the exceptionally searching standard of the Firm.

TRADE MARK 'WELLCOME' BRAND
Sodium Salicylate
(Physiologically Pure)

Comprehensive tests ensure perfect freedom from traces of cresotic acids.

Quotations on request

BURROUGHS WELLCOME & CO., LONDON



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Telegrams: "Tetradome, Telew, London" (2 words).

Telephone: London Wall 6123 (6 lines).

REGISTERED TRADE MARK.

CHEMICAL WORKS:
Wharf Road, N.

REGISTERED OFFICES
and address for all communications:
22-30 Graham Street,
City Road, N.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

Subscription Rates.
Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, *6d.*; Summer or Winter Number, *1s.*; *Diary 3s. 6d.* Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le jonrnal une fois par semaine, et l'agenda une fois par an, 12*s.* 6*d.*, franco.

Подписная цѣна на еженедѣльный журналъ съ приложеніемъ Годового Дневника—12 шиллинговъ 6 пенсовъ на годъ съ пересылкой.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.
Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, April 2.

Society of Chemical Industry, London Section, Burlington House, Piccadilly, W., at 8 P.M. Dr. R. Seligman and Mr. P. Williams, "Further Notes on the Action of Acetic Acid on Aluminium"; Mr. R. Brightman on "Nitrated Castor Oil."

Tuesday, April 3.

Hull Pharmacists' Association. Address by Mr. F. G. Hines, candidate for the Council of the Pharmaceutical Society.

Wednesday, April 4.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.

Great Yarmouth Pharmaceutical Association, at 8.30 P.M. Annual meeting.

Thursday, April 5.

North London Pharmacists' Association, St. Padarn's Hall, Salterton Road, Holloway, N., at 3 P.M. Meeting

DURING 1916 the imports of morphine hydrochloride and sulphate into Japan amounted to 558,812 oz., valued at 3,854,812 yen, against 358,543 oz., valued at 2,415,139 yen, in 1916, and 180,760 oz., valued at 750,837 yen, in 1914.

European War News.

Import and Export Notices.

BRITISH HONDURAS.—The "British Honduras Government Gazette" of February 10 contains copy of a Government notice stating that from February 9 medicines and drugs (other than patent medicines) may be imported into the Colony free of Customs duty.

JAPAN.—The Board of Trade is informed by H.M. Commercial Attaché at Yokohama that, in virtue of an Order issued by the Japanese Minister for the Interior on December 23, 1916, the exportation of the following goods from Japan is now permitted: Sulphur, plaster, white wax, lactic acid, milk sugar, boric acid, honey, pepsin, urotropin, digitalis-leaves and preparations, clove oil, potassium sulphate, yellow wax, vaseline, caffeine, liquorice-root, saccharated pepsin, cocoa-butter, tannic acid, tannalbin, ammonium carbonate, chaulmoogra oil, fennel oil, lysol, citric acid, citrate of iron and ammonia, gentian-root and preparations, cassia-bark, protargol, bromine and its salts, camphor monobrom., turpentine oil, acetanilide, aspirin, gum acacia, ammonia-water, acetate of lead, saccharin, eau de noyau, cinchona-bark, tartaric acid, bicarbonate of soda, bicarbonate of potash, castor oil, senega-root, tinctures, syrups, ointments and plasters, lactic-acid bacilli and preparations, salvarsan and preparations, olyzanin, peroxide of hydrogen and preparations, fagol, alokain, yukilin and preparations therefrom, midoliatum. H.M. Commercial Attaché states that among the names at the end of the above list are included those of certain new Japanese preparations.

SOUTH AFRICA.—The High Commissioner for the Union of South Africa that on April 2 a local Committee will be constituted in South Africa for the purpose of dealing with all orders for the Union of South Africa, placed in the United Kingdom for materials in respect of which there is a restriction of manufacture or export, and from that date no orders placed in South Africa for execution in the United Kingdom will receive consideration by the Priority Department of the Ministry of Munitions unless such orders are accompanied by the recommendation of the local Committee. The procedure laid down by the Ministry of Munitions in regard to classification certificates is as follows: All demands on the United Kingdom properly formulated shall be submitted to the local authority, who will sort, classify, and make recommendations, as well as issue certificates to applicants direct, who will send them to their manufacturers in the United Kingdom, who in turn will submit them to the Priority Department of the Ministry of Munitions for final priority classification.

Personalia.

CORPORAL JOHN MALLEY, of the R.A.M.C., who was an assistant to Mr. S. P. Farnworth, chemist and druggist, Ansdell, is in hospital suffering from a nervous breakdown and trench-fever.

SERGEANT FRED DICKINSON, who was apprenticed with Mr. John Laurie, chemist and druggist, Blackpool, and passed the Minor examination in April 1911 (when he was at 79 Darley Street, Brooks' Bar, Manchester), has been gazetted second-lieutenant in the Manchester Regiment.

Miscellaneous.

TO BE WOUND UP.—Samuel Meggitt & Sons, Ltd., Hamilton Road, Sutton-in-Ashfield, Nottingham, makers of glue, gelatins, and fertilisers. *Controller*: Robert B. Baggaley, Armitage Chambers, Victoria Street, Nottingham.

ENEMY PATENTS.—Foster & Sons, Ltd., Atlas Glass Works, St. Helens, are applying for the use of patents 9277/09, 29251/12, 13356/13, belonging to the Treuhand Vereinigung Akt. Ges., and covering the manufacture of machines for making hollow glass articles.

SALVARSAN AND NEOSALVARSAN TRADE-MARKS.—The application of H. S. Wellcome, trading as Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., for the suspension of the Australian trade-marks Salvarsan and Neosalvarsan held by Farbwerke vorm. Meister, Lucius & Brüning, has been refused.

MERSEY CHEMICAL WORKS SOLD.—On instructions from the Board of Trade, the Mersey Chemical Works, occupying a site of thirty-six acres at Bromborough Port, formerly belonging to German chemical-makers, was sold by auction in Liverpool on March 28. The property was bought for 135,000*l.* by Mr. Brotherton, a member of the well-known Leeds firm of manufacturing chemists.

THE GERMAN PHARMACOPŒIA should be revised, says the Deutsche Pharmaceutische Gesellschaft, chiefly in the way of using less material for testing.

The Salvarsan Patents.

The application of the Anglo-French Drug Co., Ltd., Gamage Building, Holborn, London, E.C., for licences to use the salvarsan patents was heard at the Patent Office Court, London, W.C., on March 23. The Comptroller-General (Mr. W. Temple Franks) and Sir Cornelius Dalton heard the application. The patents involved are the following: 3934/07, "Manufacture of acidyl derivatives of para-amido-phenyl-arsenic acid," belonging to the Curatorium der Georg und Franziska Speyerschen Studienstiftung, and the following belonging to the Farbwerke vormals Meister, Lucius & Brüning: 13485/10, "New derivatives of para-oxyaryl-arsenic acid": 5595/11, "Manufacture of nitro-oxy-arylarsenic acids": 7865/12, "Manufacture of derivatives of 3:3-diamino-4:4-dioxyarseno-benzene"; and 8219/12, "Manufacture of derivatives of diamino-dioxy-arsenobenzene." Mr. Ellis appeared for the applicants, Mr. Moritz and Mr. Armstrong for Poulenc Frères and May & Baker, Ltd., Mr. Warden for Burroughs Wellcome & Co., and Mr. Imray for the patentees.

Mr. Ellis, in opening the case, said the patents cover the manufacture of "606"—otherwise known as salvarsan, kharsivan, and arsenobenzene-Billon—and "914," or neosalvarsan, neo-kharsivan, and novarsenobenzene-Billon, for which licences had already been granted to Burroughs Wellcome & Co., Poulenc Frères, Evans Sons Lescher & Webb, Ltd., and the Diarsonal Co. He reminded the Comptroller that Mr. Bresillon, the chief shareholder in the Anglo-French Drug Co., Ltd., applied for a licence in 1914, but withdrew the application, as he had hoped to come to an agreement as selling agents to Poulenc Frères, who at that time applied for licences. The applicant, however, had been unable to complete the agreement contemplated at that time.

Mr. Moritz, interposing, said he thought the details of the unhappy dispute regarding terms were wholly immaterial to the present case.

Some conversation then ensued between the Comptroller and the parties represented, the Comptroller stating that some explanation might be desirable to account for the delay in the proceedings.

Mr. Ellis, continuing, said that the Anglo-French Drug Co., Ltd., deal in an arsenical substance named galyl, which is employed for similar purposes to salvarsan, but which does not, he had been advised, infringe the salvarsan patents. Applicants have also devised a special vessel for storing "914," in which at the time of using the salt can be dissolved without contact with air and the solution taken up direct by a hypodermic syringe. The vessels have been supplied to Government Departments, neosalvarsan being obtained from M. Corbier, a Paris chemist, who gets it from Poulenc Frères. Mr. Ellis added that applicants had put aside royalties on all orders for this, which they were prepared to pay to the Receiver of Enemy Property if the licences were granted. The device known as ampsalv adds about 4*s.* 6*d.* to the cost of the dose of neo-salvarsan. Applicants also make suppositories containing salvarsan, which under the name supsalv are supplied to Government Departments and children's hospitals. These are made by a secret process which enables the salvarsan to be kept for a long time. There has never been an accident with either ampsalvs or supsalvs. It was intended to manufacture galyl in this country, and to add to this the manufacture of "606" and possibly "914," the whole of the products being submitted to Government tests before sale.

In reply to the Comptroller, Mr. Ellis said that 250 shares out of 253 in the Anglo-French Drug Co., Ltd., belong to Mr. Bresillon, who is prepared to increase the share capital if necessary. The sales of galyl amount to 15,000 tubes a month, and the company had made arrangements with a French manufacturer to take a minimum monthly quantity of 5,000 tubes of "606" and "914" until arrangements could be made for the manufacture in this country. Those imported would be submitted to Government tests. The royalty offered was 10 per cent. on imports, 5 per cent. on that made in this country, and 2½ per cent. on that re-exported.

Some conversation took place as to whether it is an infringement of patents to bring goods made under the patent to ports in this country for re-export.

Mr. G. M. Bresillon then gave evidence on the lines indicated by Mr. Ellis in his opening statement, and, cross-examined by Mr. Moritz, admitted that he had imported considerable quantities of novarsenobenzene and supplied samples to private practitioners. He did not agree that this product, not having been submitted to biological examination by the Medical Research Committee, unfairly competed with the British-made chemicals. It was tested in France before exporting.

In reply to the Comptroller, witness said that the galyl patents are in his hands.

Mr. Moritz said he had nothing to say against a licence to manufacture here, but the position indicated is unsatisfactory. He could not understand why applicant came here at all, as he imports already a fair quantity without licence, royalties, or analytical control, and appears to enjoy the confidence of Government Departments. He (Mr. Moritz) asked that the licence be restricted to the manufacture in England, adding that the Board of Trade put serious pressure on Poulenc Frères to get the whole of the output under the licence made in this country. He contended that sufficient facilities for supplying salvarsan already exist, and that to grant licences for importing it would be unfair competition.

The Comptroller remarked that the case of salvarsan is a special one. Licences to import patented articles have not been granted except in the case of this drug. Applicant might also contend that the special appliance which he employs for storing and administering the drug is one the sale of which should be encouraged.

Mr Moritz replied that the present manufacturers doubtless had proper methods of storing and making the solutions for use.

The Comptroller said the licence to import might be restricted to the period of the war. There are the questions also whether Regulation 16A made under the Defence of the Realm Act (*C. & D.*, February 3, p. 33) does not cover the case, and whether it is in the public interest that the drug should be imported.

Mr. R. Blenkinsopp, managing director of May & Baker, Ltd., was then examined by Mr. Moritz, and stated that there would be no difficulty in increasing the plant, as plenty of the raw material is obtainable. There is no delay in executing large orders, and several thousand tubes are in stock. In cross-examination, witness said that it took eighteen months to get the process in working order.

Mr. Warden, on behalf of Burroughs Wellcome & Co., protested against the grant of further licences, and reminded the Comptroller that when Evans Sons Lescher & Webb, Ltd., applied for a licence it was stated that the time might come when the grant of licences should be limited. Mr. Warden suggested also that by implication the Board of Trade licence, especially if dated back, might give cover to the manufacture of galyl, the Moneyrat patents for which have not had their validity established. The ability of the applicants to undertake the manufacture has not been established, this having been the basis of previous applications. The apparatus for administering neo-salvarsan which applicant employs is a costly addition to the expense of the drug. "914" has already been issued by Burroughs Wellcome & Co.

Mr. Moritz added that the French firm who intend to manufacture the drug should apply for the licences.

Mr. Armstrong pointed out that Poulenc Frères have English patents for some of the processes they employ in making salvarsan.

In reply to a suggestion that the manufacture of salvarsan should be carried out in this country within two months, Mr. Ellis said that in view of the fact that it took Poulenc Frères eighteen months to set up the manufacture, he did not think two months a reasonable time.

Sir Cornelius Dalton said it might be possible to grant a licence to manufacture, and a licence under the Defence of the Realm Act Regulations to import.

The decision will be made known in due course.

Wills.

The Late Dr. Horace Benge Dobell left estate valued at 17,011*l.* 2*s.* 9*d.*

Mr. John Edward Lord, chemist and druggist, Rawtenstall, Lancs, left estate valued at 478*l.* 16*s.* 10*d.* gross and 361*l.* 2*s.* 9*d.* net.

The late Charles Portland Robinson, Coldwell House, and Wheat Bridge Mills, Chesterfield, left 40,205*l.*, with 32,160*l.* net personalty.

Mr. George Frederick Court, chemist and druggist, Oxford, left estate valued at 354*l.* 17*s.* 9*d.* gross, with net personalty 260*l.* 12*s.* 3*d.*

Mr. Reginald Le Neve Foster, J.P., F.C.S., chemical-manufacturer, Wilmslow, Cheshire, who died at Torquay on February 11, left estate valued at 25,907*l.* 14*s.* 6*d.* gross and 22,842*l.* 8*s.* 5*d.* net.

Mr. Percy James Winser, consulting chemist, Knutsford, Cheshire, an original member of the Society of Chemical Industry, who died on October 11, 1916, left estate of the value of 72,609*l.* 6*s.* 1*d.*, including net personalty of 70,599*l.* 5*s.* 2*d.*

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Summer Time.

It has been decided that "Summer Time" shall be re-introduced this year, as recommended by the Home Office Committee, throughout the United Kingdom, beginning at two o'clock in the morning of Sunday, April 8, when the clocks will be put forward one hour, and ending at two o'clock in the morning of Monday, September 17. An Order in Council will give effect to this decision.

Easter Holidays.

The following houses will be closed from Thursday evening, April 5, to Tuesday morning, April 10:

Stafford Allen & Sons, Ltd., Cowper Street and City Road, E.C.
Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.
Arthur Berton, Ltd., 15 and 17 Worship Street, and Tabernacle Street, E.C.
Burge, Warren & Ridgeley, Ltd., 91 and 92 Great Saffron Hill, E.C. 1.
Burroughs Wellcome & Co., Snow Hill Buildings, E.C.
T. Christy & Co., Old Swan Lane, E.C. 4.
Evans, Sons, Lescher & Webb, Ltd., 60 Bartholomew Close, E.C. 1.
Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.
Formalin Hygienic Co., Ltd., 3 Lloyd's Avenue, E.C.
Goodall, Backhouse & Co., 54 Southwark Street, S.E.
C. R. Harker, Stagg & Morgan, Ltd., Emmott Street, Mile End, E.
J. Hertz, 9 Mincing Lane, E.C.
Lofthouse & Saltmer, Ltd., 12 Market Place, Hull.
J. F. Macfarlan & Co., Moor Lane, E.C.
S. Maw, Son & Sons, 7-12 Aldersgate Street, E.C.
May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, E.C. 1.
T. Morson & Son, Ltd., 14 Elm Street, Gray's Inn Road, W.C.
F. Newbery & Sons, Ltd., Charterhouse Square, E.C.
Parke, Davis & Co., Beak Street, Regent Street, W.
Potter & Clarke, Ltd., 60-64 Artillery Lane, E. 1.
"Sanitas" Co., Ltd., Locksley Street, Limehouse, E.
T. & H. Smith, Ltd., 25 Christopher Street, E.C.
Sparks, White & Co., Ltd., Tenter Street East, E.
H. E. Stevenson & Co., 122 Great Suffolk Street, S.E.
William Toogood, Ltd., 77 Southwark Street, S.E.
Thomas Tyrer & Co., Ltd., Sterling Chemical Works, Stratford, E.
Mr. Vincent Wood, 91 and 93 Newington Causeway, S.E.
Wright, Layman & Umney, Ltd., 44-50 Southwark Street, S.E. 1.

The houses closing from Thursday evening, April 5, to Wednesday morning, April 11, include:

Goodall, Backhouse & Co., Leeds.
R. J. Reuter, 69 Carter Lane, E.C.

The following will close on Good Friday and Easter Monday:

Baiss Brothers & Co., Ltd., 174-176 Grange Road, Bermondsey, S.E.
The British Drug Houses, Ltd., 22-30 Graham Street, City Road, N.
Burgoyne, Burbidges & Co., Ltd., East Ham, E., and Coleman Street, E.C.
C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, E.C.
Howards & Sons, Ltd., Ilford E. (office).
Sangers, 258 Euston Road, N.W.

Closed from Monday, April 2, to Tuesday, April 10:

Allen & Hanburys, Ltd., Bethnal Green, E. (Small and urgent orders to be dealt with in rotation at Plough Court, E.C., and 7 Vere Street, W.)

THE CHEMIST AND DRUGGIST for April 7 will close for press (literary pages and Supplement) on Wednesday, April 4, and the office will be closed from Thursday evening until April 10.

The Home Secretary has made a Supplementary Order fixing nine o'clock, instead of 8 P.M., as the closing-hour on the Thursday before Good Friday, under the general closing order for England and Wales.

Women's War Work.

An interesting exhibition of photographs and samples of women's work in the manufacture of munitions of war was opened at the Royal Colonial Institute, London, S.W., on March 26. Mr. F. Kellaway, M.P., Secretary of the Ministry of Munitions, in opening the exhibition, gave some striking statistics of the growth of the establishments in this country which are making munitions of war, and in which 691,000 women are employed. Most of the exhibits were in the engineering class, but there were sections dealing with the manufacture of explosives and optical work. The chemical operations which were photographed included the manufacture of nitric acid from sodium nitrate and the manufacture of glycerin, many operations in the production of soap being pictured. One photograph showed the manufacture of glucose for use in silvering searchlight reflectors, and another was of an analytical laboratory. There was a table of samples of oil-seeds, glycerin, lye, soap, etc. The optical work referred to the manufacture of prism binoculars, clinometers, periscopes, mekometers, and range-finders. On the same table was an exhibit of glassware munitions made by girls. These were throat-sprays, ampoules, catgut-reels, syringes, pipettes, test-tubes, hydrometer-bulbs, and similar articles of glass. Some of the photographs and specimens had to do with the welfare work which is carried out in the factories. There were photographs of ambulance stations and small hospitals. In one corner we noticed a Reynolds & Branson's first-aid chest for use in factories

Indian Medical Research.

Mr. Austen Chamberlain, Secretary of State for India, presided at a meeting of the Indian Section of the Royal Society of Arts held at John Street, Adelphi, London, W.C., on March 27. The occasion was the reading by Surgeon-General Sir R. Havelock Charles, President of the Medical Board at the India Office, of a paper by Surgeon-General Sir C. Pardey Lukis on "Opportunities for Original Research in Medicine in India." This referred to the numerous diseases peculiar to our Indian Empire, which offer untrodden grounds for original research by officers of the Indian Medical Service. There will be two schools of tropical medicine in India presently; one at Calcutta and the other at Bombay. Sir Leonard Rogers is to be in charge of that at Calcutta, and later on the lecturer referred to the work that that investigator has done in connection with the use of hypodermic injections of chaulmoogra oil and the salts of gynocardic acid in the treatment of leprosy. Many examples of fields of research were mentioned, these including the comparative value of the various cinchona alkaloids; the therapeutic use of intravenous injections of metallic antimony and the soluble antimonial preparations in the treatment of kala-azar; the possibility of substituting for the more expensive emetine the cheaper alkaloids of opium, such as narcotine and papaverine, as remedies for amœbic dysentery; and the investigation of the properties of indigenous drugs. The discussion was taken part in by, among others, Sir Patrick Manson and Sir Malcolm Morris, the latter referring to two cases of leprosy in Englishmen which had been cured by Sir Leonard Rogers' treatment.

Dominions Royal Commission.

The final Report of the Dominions Royal Commission was issued as a Blue-book on March 27. The Commission, which was the direct result of the Imperial Conference of 1911, included representatives appointed by the Dominion Governments, and its work has been extremely laborious and comprehensive. The Commission has investigated (*a*) the natural resources of the five self-governing Dominions, and the best means of developing those resources; (*b*) the trade of those parts of the Empire with the United Kingdom, each other, and the rest of the world; (*c*) their requirements and those of the United Kingdom in the matter of food and raw materials, together with the available sources of supply. The Commission has visited Australia, New Zealand, and South Africa, while Canada has been visited twice. In all it has held 161 meetings and examined 851 witnesses. The Commission, in outlining its scheme for future development, urges that a complete survey should be made of the relation between Empire production and Empire requirements of raw materials and commodities essential to its well-being, and it has collected preliminary facts and figures for such a survey. The Commission suggests that the responsibility for such a survey and investigation should be reposed in a new Imperial Development Board. Cheaper cable rates are described as an urgent necessity, and the speeding-up of a Trade Intelligence system with the co-operation of British Consuls, the preparation of Imperial industrial and commercial statistics, and periodic inter-Imperial exhibitions are put forward as a means of improving commercial practice, as is also the unification of legislation, particularly in the matter of patents, trade-marks, and companies law. Many other aspects of Empire economic development are discussed, the best of which it is hoped will bear good fruit. Severe strictures are passed on the Imperial Institute, and it is recommended that its research functions should be limited to work for India, Crown Colonies, and the Protectorates. It will be remembered that evidence was given in the early part of the inquiry regarding the cultivation of medicinal plants in suitable localities within the Empire, but so far as we can see the final Report does not mention the matter. Among the commodities mentioned in the appendix are borax, antimony, magnesite, mercury, sodium nitrate, sulphur, thoria, zinc, and copper, the sources of supply being indicated and also the extent to which they are obtainable within the Empire.

Contracts.

The following contracts with Boards of Guardians have been settled:

Camberwell.—For three months' supplies: Apothecaries' Society, drugs and tinctures at 22½ per cent. off list; Middleton Bros., brimstone at 3½*d.* per lb., fly-papers at 7½*d.* per doz.

Cambridge.—Mr. John Evans, chemist and druggist, drugs.

Colchester.—McDougall Bros. and the Sanitas Co., Ltd., soap for three months.

Derby.—Davies, Sons & Co., drugs.

Isle of Wight.—Millidge & Son, Newport, drugs and medicines, 59*l.* 12*s.* 2*d.*; A. Barton, Ltd., Sanitas Co., Ltd., Millidge & Son, Timothy White Co., Ltd., and Mr. D. F. Ritchie, druggists' goods.

Mereden.—Mr. C. G. Cook, drugs.

Mutford and Lothingland.—McDougall Bros., soap, etc.

Nantwich.—Mr. W. Grice, drugs, 36*l.* 19*s.* 3*d.*

Retford.—Mr. P. G. Holoran, chemist and druggist for a year.

Richmond (Surrey).—Corbyn, Stacey & Co., drugs for six months.

Rochford.—Mr. R. H. Shields, chemist and druggist, drugs.

Runcorn.—Mr. J. H. Weston, chemist and druggist, drugs.

Todmorden.—Mr. Horace Hartley as chemist and druggist for the ensuing half-year.

Weymouth.—Mr. T. Evans, Witham, hospital dressings.

Wolstanton and Burslem.—McDougall Bros., disinfectants.

The following have also been settled:

Chelmsford Joint Hospital Board.—Corbyn, Stacey & Co., Ltd., drugs.

Chesham Urban Council.—H. E. Hope & Co., disinfecting-fluid.

Sleaford Rural Council.—Mr. W. Spyvee, disinfectants for six months.

Southend-on-Sea.—Ingram Johnson, drugs and druggists' sundries for six months; the Sanitas Co., Ltd., Newton, Chambers & Co., Ltd., and Jeyes' Sanitary Compounds Co., Ltd., disinfectants for the Town Council for twelve months.

Tyldesley (Lancs).—J. Wallwork & Sons, disinfectants for the Urban Council.

Birmingham.

The making of artificial limbs has become an important industry in Birmingham, one firm stating that they are the largest makers in the provinces.

Mr. Wm. Bousfield, Erdington, has had a serious relapse after gastritis, and has been ordered to bed for some weeks for absolute rest and quiet. His many friends in pharmacy wish him a speedy recovery.

Mr. John Humphreys, D.D.S., whose dental museum we referred to last week, was formerly a chemist at Bromsgrove, and began his dental experience with Mr. Sims, dentist, who had rooms in Union Passage.

Mr. F. Smith, Secretary of the local Pharmaceutical Committee, has issued a circular in which he gives the Pharmaceutical Society's information about chemists and National Service, as well as other topics (*e.g.*, glycerin), which were reported in the *C. & D.* some weeks ago.

Liverpool.

The Registration of Business Names Act is having its effect in the wholesale trade, the names of the present partners in the old businesses still bearing the original names being disclosed on the stationery. The house of Evans has done this for more than a generation.

As the tendency of north winds and snow showers to prevail becomes more marked as the month draws to a close, the demand is still great for medicines soothing to throat and chest. The cosmopolitan customers of the month have included an unusually large percentage of sailors.

The Liverpool, Birkenhead, and Wallasey combined concert in aid of the Pharmaceutical Benevolent Fund was preceded by a "whip" postcard headed "To-night's the night." Indeed, it was "the night," as the guests arrived amid storm showers of snow and rain without parallel even in the current inclement season. Everything, however, passed off well, and the weather abated before closing-time. The collection exceeded the record of 50*l.* by nearly 50 per cent., and is still being supplemented by enforced absentees. Good music was given, together with bright and brief speeches. The "unrehearsed incident," a feature of these gatherings, proved a huge success. One of the male singers was "interrupted" and "insulted" amid loud protests, the intruder narrowly escaping violence from one indignant veteran who had been egged on by his elder friend. Roars of laughter ensued when it was recognised that the interruption formed part of the programme, the singer and his assailant joining in a duet and dialogue which gained loud plaudits.

Manchester.

The question as to whether the study of Greek and Latin should be compulsory has been the cause of quite a stir in educational circles in Lancashire.

The candidate for the forthcoming Pharmaceutical Council contest, who had been nominated and strongly supported, has been compelled to withdraw at the last moment. A change in the personnel of his staff is the cause.

At least two chemists in business in Manchester received notices last week to join the Colours, but their cases have been dealt with by the Insurance Committee. A chemist's assistant (medically rejected) was also called up last week, but on producing his exemption-papers the notice was cancelled.

Sheffield.

Mr. Harold Eardley, only son of Mr. J. F. Eardley, has been promoted to be sub-lieutenant in the Navy. He joined the Naval Air Service in the early stages of the war.

Mr. C. W. Affleck, chemist and druggist, has been discharged from the King's Own Yorkshire Light Infantry and placed in Reserve W. He was with Burroughs Wellcome & Co., Snow Hill, prior to joining the Colours.

Amongst several pharmacists who have been on the sick-list with influenza, etc., Mr. J. S. Burnell, the oldest chemist in actual business, is suffering from a sharp attack of bronchitis. Mr. J. F. Eardley has been compelled to take a rest from business, and is now at Falmouth recuperating.

The latest move in military circles is the offer by the substitution officer of pharmacists who are serving with the Colours and have been reduced in classification by the Army Medical authorities, in place of chemists who are classed as A or B1 and hold certificates of exemption from the Local Tribunal as recommended by the Joint Committee. Little disturbance is likely.

Miscellaneous.

The British Association meeting in Bournemouth will not be held this year.

Six New Companies of cork-merchants have been registered since our last issue.

A Ministry of Health is proposed. It would consist of all Government medical departments except the Army and Navy medical services.

Pascall's Syrup.—The Board of Agriculture asks bee-keepers to get this from James Pascall, Ltd., 100 Blackfriars Road, London, S.E., at 10*d.* per lb. for feeding bees.

Oil-seed Trade Reforms.—The London oil-seed trade from Monday, April 2, will abolish the existing system of dealing in "quarters" varying in weight for the different seeds, and of quoting terms subject to discount. From next month all terms will be net prices at the actual ton weight.

The National Herb-growing Association's newest branch is at Chelmsford, where, on March 23, Mr. Alfred Wolfe, Organising Secretary, said the four essential plants are belladonna, henbane, digitalis, and colchicum. He also stated that since February the Association has refused orders for 50 tons of herbs.

Venereal Diseases.—A White Paper [Cd. 8509] has been presented to Parliament which refers to the prevention and treatment of venereal diseases. The recommendations of the Royal Commission on Venereal Diseases are summarised, and then is given information as to the action taken by the Local Government Board and the progress made with schemes of treatment.

A Deed of Arrangement has been registered covering the estate of Albert Livingstone Roue, drug-store proprietor, 265 Breck Road, Everton, Liverpool. Mr. P. S. Booth, 35, 36, and 37 Exchange Chambers, 2 Bixteth Street, Liverpool, is the trustee. Liabilities unsecured amount to 242*l.*, and estimated net assets are 155*l.* The creditors include D. & W. Gibbs, Ltd., 5*l.*; Jules Denoual, 3*l.*; Clay, Dod & Co., 119*l.*; Ayrton, Saunders & Co., Ltd., 75*l.*; R. Sumner & Co., Ltd., 25*l.*; Chemists' Sundries, Ltd., 4*l.*

Poisonings.—The fatal cases of poisoning which have occurred during the week include the suicide by veronal of Emma Charlotte Ahlers, whose husband was formerly German Consul at Sunderland. Mrs. Ahlers died at Holloway, and it was stated that she acquired the drug-habit some time ago.—At Nelson a young woman named Walker committed suicide with salts of lemon.—At Burnley a woman named Cockshutt committed suicide with carbolic acid. At the inquest Mr. Edwin Graham, dispensing chemist, stated that deceased told him she required the acid for disinfecting-purposes, and he gave her instructions for using it. The bottle had two poison-labels on it.

Grey Acetate of Lime.—At the Guildhall, London, before Alderman Sir John Baddeley, on March 27, Mr. William Mann, St. Mary Axe, E.C., was summoned, at the instance of the Director of Public Prosecutions, for having on February 1 unlawfully without a permit offered to deal in war material—viz., grey acetate of lime—contrary to the Defence of the Realm Regulations. For the prosecution it was stated that the defendant had telegraphed to an agent in Genoa about 70 tons of acetate offered by a Manchester firm; the telegram was stopped in the Censor's department, and this case followed. For the defence it was submitted that no offence had been committed, and the Alderman said no offer was made in the telegram, but he considered it was a preparatory act, and imposed a fine of 10*l.*, with five guineas

costs. A second summons against Mr. Mann was about a proposal by him to trade with Roessler & Haaslacher, of 100 William Street, New York (a "black-listed" concern), and in respect to this a penalty of 50*l*., with five guineas costs, was imposed. It was stated that Mr. Mann had rendered great assistance to the Government.

Oil of Cloves Exportation.—At Westminster Police Court, before Mr. Horace Smith, on March 24, Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C., and Mr. George King, their export manager, were summoned for making an inaccurate statement in respect to the identity of a consignee for 100 kilos. of oil of cloves. It appeared from the evidence that the company received the order from a firm in Paris, whose customer is in Moscow, and the defendants' clerk treated the "ultimate purchaser" required in the declaration as the Paris firm; in error he used that name instead of the Moscow one. Before the shipment was made the error was discovered and the goods were stopped. Mr. Schiller, K.C., on behalf of the defendants, pointed out that Homer sometimes nodded, and this was a case of Homer having been caught napping. The Magistrate imposed a fine of 100*l*., and 10*l*. 10*s*. costs, on the company; Mr. King to pay 50*l*. [In this case no allegation was made against the good faith of the company, and it was clearly recognised that the error was due to carelessness on the part of a subordinate. Their Paris customer is also a firm of the highest reputation.—Editor *C. & D.*]

Irish News.

Pharmaceutical Society of Ireland.

At the sessional examination of the School of Botany and Materia Medica the following awards were made: *Botany.*—First prize, Frederick Chanel Hayes; second prize, Charles Frederick Kirwan. *Materia Medica.*—First prize, James Whelan; second prize, Frederick Chanel Hayes. The new session will commence on April 3.

Brevities.

The medical officer of the Dundalk Union has complained at the delay of the contractors in the supply of drugs and surgical appliances. The matter is to be reported to the Local Government Board.

The substantial increase in the cost of drugs which is shown in the reports of various Boards of Guardians is being inquired into by the Local Government Board. It is suggested that medical officers might exercise more economy.

The new regulation regarding the sale of agricultural poisons is being brought to the notice of County Councils in Ireland. The Kilkenny County Council has fixed the licence-fee at 5*s*. It was stated that many unqualified people are at present selling the poisons referred to without any licence.

Drug and Surgical-appliance Contracts.

Irish Boards of Guardians have accepted tenders for the supply of medicines and surgical appliances as follows:

Union	Medicines	Surgical Appliances
Carrick-on-Suir	Boileau & Boyd, 11¼%	Fannin & Co., 26%
Castlerea ...	Sumner & Co., 15 %	—
Clonmel ...	Boileau & Boyd, 15%	Same contractors
Fermoy ...	Sumner & Co.	Fielding's Pharmacy
Govey	Sumner & Co., 15 %	—
Roscommon ...	—	Clarke & Co., 18¾%

The Clonmel Guardians gave the preference to Boileau & Boyd over Sumner & Co. on the ground of convenience.

Scottish News.

Edinburgh.

Fifty boys belonging to Daniel Stewart's College have volunteered to help shopkeepers to deliver parcels on Saturdays.

The following is a local advertisement:

Doctors: Shortage and Pressure.—To obtain Attention as Early as Possible, all Messages should be sent before 9 30 a.m., otherwise Delay may result. Requests for Visits in the Evening, through the Night, or on Sundays should only be made in cases of Real Urgency. Visits out of ordinary rounds may be charged extra. On behalf of the Executive of the Edinburgh and Leith Division of the British Medical Association.

The annual general meeting of the Edinburgh and East of Scotland Section of the Society of Chemical Industry was held in the Cockburn Hotel, Edinburgh, on March 21. Dr. Alex. Lauder, the Hon. Secretary, submitted his annual report, in which reference was made to the highly satisfactory meetings which had been held during the session. Mr. D. B. Dott was elected Chairman in succession to Professor James Walker, F.R.S., and Mr. J. S. Ford Vice-Chairman, and Dr. Lauder, 13 George Square, Edinburgh, was re-elected Hon. Secretary.

Glasgow.

Professor Robertson Watson, of the Chair of Chemistry in Anderson's College, is standing for South Aberdeenshire as an Independent Citizens' candidate.

The district Association will have no Council election this year, as only eighteen of the thirty-seven gentlemen nominated are willing to serve, and eighteen is the number required.

The Trade Committee of the Glasgow and West of Scotland Chemists' Association recommend the following alterations in prices: Gamgee tissue, 7½*d*. per ¼ lb., 1*s*. 2*d*. per ½ lb., 2*s*. 3*d*. per lb.; crushed linseed, 8*d*. per lb.; boric, carbolic, gall, golden, mercury (dilute), red precipitate, resin, sulphur, white precipitate, and zinc ointments, 2-dr. box, 1*d*., or 3*d*. per oz.

French News.

(From the "C. & D." Paris Correspondent.)

Business as Usual.—One of the characteristics of this war has been the immutability of the Western Front since the battles of the Marne and the Aisne. At Nancy, for instance, one of the oldest-established pharmacists has just modernised and enlarged his premises, the new shop being inaugurated on the morrow of the bombardment of Lorrain. Two hundred years ago the owner of this pharmacy was the *doyen* of the Apothecaries' Guild, and the quaint old coffer in which he kept the archives of the Corporation is now in the local museum. But the new shop still retains many relics of the past—old pharmacy-pots, bronze mortars, old pewters, engravings, and books.

Chemical-factory Sneaks.—Hippolyte Lyon (born in Switzerland of French parents, but having served in the German army), Auguste Bernard, head of a chemical-works at Tararo (Rhone), and Morel, a foreman at Givaudon-Lavirotte's chemical-works at Lyons, were recently tried and sentenced by the local Criminal Court. Lyon had bribed Morel to keep him posted up in the new processes introduced at Givaudon's factory, and sold these secrets to another manufacturer. He also purchased from Bernard details of the processes adopted for the manufacture of pyramidon and antipyrin at the Usines du Rhone (the great chemical-works near Lyons). He had then become the manager of a chemical-works at Vitry-sur-Seine, where he was arrested. The Court sentenced Morel to six months' imprisonment and Lyon to fifteen months'. The latter has also to pay a fine of 16,000f. The two were condemned to hand a sum of 10,000f. as damages to Givaudon-Lavirotte. Bernard was acquitted.

Personalities.

Mr. Alfred Evison, chemist and druggist, Alfreton, has been made a Justice of the Peace for Derbyshire.

Mr. David Innes, dispensing chemist, Stalybridge, and Mrs. Innes have sent a cheque for 1,000*l*. to the Governors of the Ashton District Infirmary, to endow a bed in honoured memory of their son, Captain W. R. Innes, killed in action whilst leading his men on the Somme on November 13, 1916 (*C. & D.*, lxxxviii., 1197). It is intended to place a tablet over the bed, along with a portrait of Captain Innes.

Professor A. Dambergis, of the University of Athens, completes on May 13 the twenty-fifth anniversary of his commencing the teaching of pharmaceutical chemistry at the university. Before that he was professor at the Military College and the College for Naval Cadets, and was also connected with the Ministry of Finance. A bust in marble has been made by Tombros, the well-known Greek sculptor, and is to be presented to him on May 13. With Dr. Emmanuel as a collaborator, Professor Dambergis has just completed the fourth and final volume of an encyclopædia of pharmacography.

Legal Reports.

Supply of Teats.—At Belfast Assizes last week, a case was heard by Mr. Justice Ross in which the Pirelli Rubber Co., Ltd., London, appealed against a decision of the County Court dismissing an action brought by them against Samuel Gibson, wholesale druggist, King Street, Belfast, to recover 6*l.* 3*s.* 2*d.* for goods sold and delivered (see *C. & D.*, January 27, p. 115). Having heard the evidence, his Lordship reversed the decision of the Court below, and gave a decree for the amount claimed.

Gregory's Powder.—Writing to us in regard to the proceedings against Mr. W. L. D. Shirtliff (*C. & D.*, March 24, p. 38), Messrs. Neve, Beck & Kirby, solicitors, who represented the defendant, inform us that the Hammersmith analyst's certificate stated that the sample contained 50.8 per cent. (not 5.8) of ginger and rhubarb, and there was no reference to extraneous matter. It was at Mr. Shirtliff's request that the reserve sample was referred to Somerset House, and the adjournment for that analysis was for a month.

A Lost Thumb.—In the City of London Court, before Judge Rentoul, K.C., on March 22, the case of Moore *v.* J. Grossmith, Son & Co. was mentioned. The plaintiff, a soap-stamping assistant, by his next friend claimed damages under the Workmen's Compensation Act against the defendants for compensation for personal injuries which he suffered on July 10, 1916, when owing to getting his right thumb into a machine it was injured, and had to be amputated at the terminal joint. He had been totally incapacitated from then, but had returned to defendants, who agreed to pay 30*l.* in addition to the weekly payments already made, and the plaintiff was willing to accept it. His Honour agreed with the arrangement, and directed the money to be paid into the Post Office Savings Bank.

A Workman's Claim. In the Nottingham County Court on March 22, before the Deputy Judge (Dr. Lindley), the case of Foster *v.* Boots, Ltd., under the Workmen's Compensation Act, was heard and settled. The plaintiff's case was that on December 29, 1916, while he was wheeling a barrow up an incline on to a lift, the barrow slipped and the handle struck him in the groin and subsequently caused a rupture. He felt no result, however, until December 31, when he saw Dr. Hillary and had a week off, then went back to work for a fortnight, but was taken ill again, and as he could not do the work he was "stopped." Since then he had done nothing. He admitted that he had an abdominal swelling four months before. The foreman, in evidence, stated that plaintiff was not discharged because he was unable to work, but because of a lack of Government orders. Dr. Hogarth stated that no rupture was visible on March 12. The Deputy Judge gave judgment for the respondents, holding that although plaintiff was suffering from slight hernia of long standing, it had no connection with this accident.

Soda Contract.—At Belfast Assizes on March 23, before Mr. Justice Ross, the action brought by the Electro Bleach and Bye-Products, Ltd., 32 Victoria Street, London, against Samuel Gibson, wholesale druggist, King Street, Belfast, to have rescinded a contract, into which, it was alleged, the plaintiffs were induced to enter by misrepresentation, and for payment of 33*l.* 19*s.* 11*d.*, this being the price of goods delivered under contract which plaintiffs sought to have cancelled, was listed for hearing. The defendant denied misrepresentation, brought into court the sum of 33*l.* 19*s.* 11*d.*, and counter-claimed 100*l.* for breach of contract. Mr. H. M. Thompson appeared for the plaintiffs, and Mr. William Beattie represented the defendant. Mr. Beattie intimated that an agreement had been arrived at by the parties that the action be settled upon the following terms: (1) That an order be made directing payment out to the plaintiff company of the sum of 33*l.* 19*s.* 11*d.* lodged in court by the defendant; (2) that the plaintiff company do hereby withdraw all charges, including the charge of deceit made against the defendant; (3) that the contract entered into between the plaintiff company and the defendant for the sale of soda crystals for delivery in the years 1916-17 and 1918, the subject-matter of the action, be cancelled between the parties; (4) that plaintiff company pay to the defendant the sum of 91*l.* sterling in respect of non-delivery of soda crystals; (5) that each party pays its own costs. The other side raising no objection, the consent was made a rule of court.

Pharmacy Act: Insurance Prescriptions.—At Greenwich Police Court, before Mr. Boyd, on March 22, Mr. Sidney George Baker, chemist and druggist, 16 Church Street, Greenwich, was summoned by the police under Section 17 of the Pharmacy Act, 1868, (1) for selling on a National Health Insurance prescription a liniment containing atropine in a bottle not distinguishable by touch from an ordinary medicine-bottle, and (2) for selling a poison in Part I. of the schedule without making the requisite entry in the poison-book. The case was the sequel to an inquest held in February on the death of a child aged nineteen months. The article supplied was an eye-lotion. Mr. G. E. Sawyer, father of the child, stated that he placed the bottle uncorked on the mantelpiece and went out of the room. The child took some of the contents of the bottle and died. Mr. H. B. Sewell, for the defendant, pleaded guilty to the first charge in the summons, but on the second submitted that defendant was not bound to make an entry, as the article was supplied under the prescription of a medical man. The case was adjourned for production of the prescription, and came on again on Saturday, March 24, when the defendant stated that this particular prescription had been mislaid. It was his practice with all Insurance prescriptions, after making them up, to place the prescriptions on a file for the month. At the end of the month one portion is sent to the Pricing Bureau and the other retained, being placed in a box, kept for five or six months, then destroyed. All panel doctors' prescriptions, whether containing poison or not, are dealt with in the same way, this being the custom with panel chemists, he said. The Magistrate: You do not, in fact, keep any book at all? Defendant: Not for these prescriptions. Mr. Sewell said that all ordinary prescriptions are entered in the prescription-book whether they contain poison or not. Mr. W. Johnston, Secretary of the Chemists' Defence Association, Ltd., corroborated this, and was asked by the Magistrate: What do you say is the usual custom with panel chemists in regard to panel prescriptions? Mr. Johnston: The usual custom throughout the country is to retain the duplicates for reference for a longer or shorter time. The usual custom is to keep them tied up in bundles. The Magistrate: Do you suggest that putting prescriptions into a box is the same as keeping a book in which the names of the purchasers and particulars of the sale are recorded? Mr. Johnston: I do not think it is a legal compliance, but it complies in the spirit. Mr. Sewell said that this was the first case where it had been suggested that a panel chemist should enter these prescriptions in a book. He submitted that before a step like that should be taken some warning should have been given. He suggested that the summons should be withdrawn and the case be regarded as a warning. On the face of the summons no offence had been committed, because it is not necessary to enter in the poison-book, but in a book kept for the purpose. The Magistrate said: You need not keep a book in that particular form, but the Act says a book must be kept, and it must contain the name of the purchaser and the particulars of the sale. He added: The contention is that acting in this way, filing the prescriptions in a box and finally destroying them, is a compliance. In my opinion it is not a compliance either with the letter or the spirit of the Act. I think it was intended by the Act that a record should be kept in such a way that any transaction may be traced quickly, and that can be done if a book is kept and entries are made. It cannot be done if the practice which is followed by Mr. Baker and other chemists is pursued, because you would never be able to find a prescription. After a few months it would have been destroyed, and all record would be gone. Referring to the first summons, Mr. Sewell stated that there was great difficulty in obtaining small poison-bottles. The alternative was to use an 8-oz. poison-bottle, but it would affect the lotion to put a small quantity in a large bottle. As a precaution the defendant put a poison label on the bottle, although it was not incumbent upon him to do so owing to the article being prescribed. The Magistrate found both charges proved, and imposed a fine of 3*l.* on the first summons and 2*l.* on the second. He said there was no doubt that the fact that this poison was not sold in a poison-bottle did not in any way contribute to the tragedy, but it was very necessary that the law should be strictly enforced. With regard to the second summons, it had been found to be the practice amongst chemists to file Insurance prescriptions instead of entering them in a book. He did not think that this was in any way compliance with the Act, but seeing that defendant followed the course which other chemists have adopted, he imposed a fine of 2*l.* only in this case.

["Insurance and other original prescriptions containing poison may be filed in a book."—*C. & D. Diary*, p. 360. Subscribers in Great Britain will please note.]

A Highland Boy was asked why he had been absent from school, and his reply was that his "chronicle" tubes were very bad and he had been "quaking" all over for breath. —(223/24.)

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

India-rubber Manufacturers' Association, Ltd. (P.C.).—Limited by guarantee. R.O., 16 Deansgate, Manchester.

International Laboratories, Ltd. (P.C.).—Capital 1,000*l*. Manager, Alice E. Peachey. Solicitors: Jacksons, Elwell & Curran, 23 Coleman Street, E.C.

Lawrence Chemical Co., Ltd. (P.C.).—Capital 2,000*l*. The subscribers are A. Le Vay Lawrence, 7 Heathfield Park, Willesden Lane, N.W., and L. H. Findlay.

Silicated Carbon Filter Co., Ltd. (P.C.).—Capital 1,500*l*. The first directors are G. F. Marshall, Miss K. L. Simpson, and W. J. Hancher. R.O., 75-77 Church Road, Battersea, S.W.

Ellis & Co. (Chemists), Ltd. (P.C.).—Capital 2,000*l*. Objects: To take over the business carried on by B. & A. Ellis, 228 Ecclesall Road, Sheffield. The subscribers are B. Ellis and A. Ellis.

Jenner Institute for Calf Lymph, Ltd. (P.C.).—Capital 300*l*. The first directors are G. F. Marshall, Miss K. L. Simpson, and W. J. Hancher. R.O., 73 Church Road, Battersea, S.W.

Stanford & Co., Ltd. (P.C.).—Capital 5,000*l*. Objects: To carry on the business of soap-boilers, etc. The subscribers are John Weir and S. B. C. Stanford. R.O., Stanford Street, Clydebank.

Vitamogen, Ltd. (P.C.).—Capital 500*l*. Objects: To manufacture and deal in "Vitamogen." The subscribers and first directors are W. Shepperson and Mrs. H. Shepperson. Solicitor: H. Hocombe, 34 John Street, W.C.

Horatio Crowther & Co., Ltd. (P.C.).—Capital 7,000*l*. Objects: To take over the business of A. Nicholson, manufacturing chemist, Leeds. The first director is A. Nicholson. R.O., Copper Works, Amberley Road, Armley, Leeds.

Sargol Co., Ltd. (P.C.).—Capital 1,000*l*. Objects: To take over and carry on the business of the Sargol Co. Alice E. Peachy, Carlton House, Kingsway, W.C., is the first manager. Solicitors: Jacksons, Elwell & Curran, 23 Coleman Street, E.C.

Frank Inman, Ltd. (P.C.).—Capital 500*l*. Objects: To carry on the business of dealers in chemicals, proprietary articles, surgical appliances, etc. The subscribers are C. W. West and G. L. Shepherd. R.O., Cromwell House, Holborn, W.C.

D. M. Cooper, Ltd. (P.C.).—Capital 500*l*. Objects: To carry on the business of dealers in chemical and surgical appliances, drugs, etc. The subscribers are Mrs. E. E. Carrey and Miss Sybil Yeo. R.O., Holborn Hall, Grays Inn Road, W.C.

Atlas Oil Co., Ltd. (P.C.).—Capital 2,000*l*. Objects: To carry on the business of wholesale manufacturing chemists, etc. The subscribers and first directors are A. S. Cockroft and G. B. Hallas. Solicitor: L. Farrar, Cloth Hall Street, Huddersfield.

Robert Ferber, Ltd. (P.C.).—Capital 4,000*l*. Objects: To carry on the business of manufacturers of and dealers in medicinal and other capsules. The subscribers and first directors are Robert Ferber and Paul Buckler. R.O., 98-104 Oakley Street, Lambeth, S.E.

Taylors White Oils, Ltd. (P.C.).—Capital 2,000*l*. Objects: To take over and carry on the business of R. G. Sparrow, manufacturer of oils, liniments, etc. The subscribers are R. G. Sparrow and W. G. Walker. Solicitors: Simpson & Lee, Parade Chambers, Nottingham.

Warrington Chemical and Drug Co., Ltd. (P.C.).—Capital 5,000*l*. Objects: To carry on the business of manufacturers of and dealers in salicylic acid and its derivatives, etc. The subscribers are P. Fisher and J. H. Whittaker. Solicitor: J. Campbell, 1 New Market Street, Blackburn.

H. Brown & Co. (Hull), Ltd. (P.C.).—Capital 2,000*l*. Objects: to take over the business of H. Brown & Co., wholesale druggists, Standard Works, Haddon Street, Hull. The subscribers and first directors are Mrs. A. M. Brown and H. Brown. R.O., Standard Works, Haddon Street, Hull.

Devonshire Baryta Co., Ltd. (P.C.).—Capital 3,000*l*. Objects: To take over the business of the Teign Valley Barytes Mining Co. and the Devonshire Baryta Co. The subscribers and first directors are M. J. Dunsford, H. C. Rowe, and R. C. Upright. Solicitor: A. Snow, The Close, Exeter.

Sherwood & Davies, Ltd. (P.C.).—Capital 10,000*l*. Objects: To carry on the business of manufacturers of and dealers in optical, ophthalmic, surgical, dental, etc., instruments, lenses, spectacle-frames, etc. The first directors are A. M. E. Sherwood and G. H. Davies. R.O., 22 Verulam Street, Gray's Inn Road, W.C.

Evans Sons Lescher & Webb, Ltd.—The report of the directors for the year ended December 31, 1916, states that after paying all charges, including income-tax, excess-profits duty, interest on debenture stock, dividend on preference shares, interim dividend on ordinary shares, fees and salaries to senior and junior directors, there remains an available balance for further dividend on ordinary shares of 19,842*l*. 5*s*. 10*d*. The directors report a very considerable increase of business in 1916, and note how well maintained are the sales in their specialities. The retirement of Mr. John J. Evans, chairman of the company since its foundation, is also noted, and Sir Edward Evans has succeeded him, while Mr. T. Edward Lescher has been appointed a senior director. Reference is made to the death on service of Captain E. H. S. Evans, whose abilities as a business man are commended. Mr. Stephen F. Webb, one of the junior directors, and his brother, Mr. Christopher R. Webb, are serving in his Majesty's Forces, in addition to over 300 of the staffs in Liverpool and London, many of whose dependants are being provided for in their absence. The cordial relations with the National Drug and Chemical Co. of Canada, Ltd., still continue. The company's laboratories at Runcorn are working satisfactorily, with an increased trade in various products. A considerable amount of land has been acquired for the purpose of growing medicinal plants. The purchase of a building site in Bartholomew Close is mentioned, and the directors recommend that for the second half-year a dividend at the rate of 10 per cent. per annum be paid on the ordinary shares, making 10 per cent. for the year; also a bonus of 2½ per cent. for twelve months, leaving 8,592*l*. 5*s*. 10*d*. to be carried forward. Mr. W. P. Evans, Mr. A. B. Evans, and Mr. H. E. Webb retire, and, being eligible, offer themselves for re-election.

Southall Brothers & Barclay, Ltd.—Sir Thomas Barclay presided at the annual meeting of this company held in Birmingham on March 28. In moving the report of the directors (*C. & D.*, March 24), Sir Thomas mentioned each of the financial items, and referred to the more important business events of the year, including the appointment of Mr. Wm. E. Hipkiss and Mr. E. W. Mann, B.Sc., Ph.C., as directors, commending the abilities of both. He then touched upon how the war has affected supplies of business materials—*e.g.*, opium, tragacanth, colocynth, storax, gum arabic, liquorice-root, senna, and other products—and showed how the prices of opium, otto of rose, and tragacanth have risen, while storax is unobtainable. Other articles have also become dearer, but, said Sir Thomas, it is satisfactory to know that although the British Empire is suffering in this way, the Germans, who have brought about the upheaval of prices, have been hoist with their own petard. He gave examples of German prices, then proceeded to speak of other matters that have touched British drug-trade, dealing specially with glycerin, sugar, and rectified spirit. Sir Thomas also dealt with kindred subjects such as research, and spoke of the means that have been taken to safeguard and extend British chemical industry. He then dealt with the company's own manufactures, and concluded by expressing the directors' satisfaction with the loyal devotion of the managers and staff generally. Sir Thomas moved the adoption of the report, and his son, Mr. Thomas Barclay, in seconding, said that last year more than 2,000 tons of cotton passed through the company's Saltley Mills, or 11,000 miles of cloth, to bleach which they used 140,000 tons of Corporation water. Under the revised scale of water-charges that would cost 1,250*l*., and in consequence it was proposed to remove the bleaching plant to their bleach-works in Lancashire. The report was adopted and the dividends there recommended were confirmed. Sir Thomas Barclay, Messrs. W. E. Hipkiss, and E. W. Mann were re-elected directors.

Saccharin in Italy.—The Italian Government are taking measures to provide saccharin for use as a substitute for sugar, either by importation free of duty, or by manufacture in Italy under the permanent supervision of the Ministry of Finance.

Japanese Agar-agar.—It is estimated by the Japanese Department of Agriculture that, even under the most favourable conditions, the output of agar-agar for 1917 will not exceed 2,700,000 kin, a decrease of about 18 per cent. compared with 1916, when 3,300,000 kin was produced. As a result of this decrease, and of the advance in price of raw materials, a rise in the price of agar-agar is expected.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(*From "The Trade-marks Journal," March 21, 1917.*)

"RITO"; for chemicals (1). By The Molassine Co. Ltd., East Greenwich. 376,090.

"VELOCINE" and "VELOSAN"; for chemicals (1). By A. Smith, 4 Bank Street, Clayton, Manchester. 376,577/8. (Associated.)

"COLORPROOF" under facsimile signature "J. H. RATCLIFFE" ("Colorproof" disclaimed); for chemicals (1). By J. H. Ratcliffe, 148 Southbank Road, Southport. 376,723.

"CEREOLA"; for a chemical for preserving seeds from birds and parasites (2). By Osmond & Son, Ltd., Doughty Road, Great Grimsby. 376,686.

"MUM"; for all goods (3). By F. E. Coe, 144 Albany Street, W. 375,351.

"SANETTES"; for medicinal tablets (3). By Harkness, Beaumont & Co., Leith. 375,387.

"ELFIN"; for medicinal chemicals (3) and for perfumery, etc. (48). By Boot's Pure Drug Co., Ltd., Nottingham. 376,509/10.

"PLUROSTAT"; for all goods (11). By The Cavendish Electrical Co., Ltd., 105-107 Great Portland Street, W. 371,043.

"SANITAS"; for non-medicated surgical instruments, etc. (11). By The "Sanitas" Co., Ltd., Locksley Street, Limehouse, E. 376,503. (Associated.)

"NUVIS," for cereals, etc. (42); "WARVIS," for goods (42). By the Hovis-Bread Flour Co., Ltd., 154 Grosvenor Road, S.W. 375,793/4. (Associated.)

"VULPENA" and "LANDSCAPE"; for perfumery, etc. (48). By R. Dixon & Co., Ltd., Canal Street, Rochdale. 376,580/824.

"ORISAL"; for tooth-pastes, etc. (48). By W. Naylor, 77 George Street, Portman Square, W. 376,841.

"NEMESIA"; for toilet-preparations (48). By Cuxson, Gerrard & Co., Ltd., Oldbury. 376,531.

"JESSAMY BRIDE"; for perfumery, etc. (48). By C. Thomas & Bros., Ltd., Bristol. 376,628.

"QU'IMPORTE DEMAIN," "THE PIPES OF PAN," "SIMPLE AVEU," "QUAND VIENT L'AVRIL," and "SONATA"; for perfumery, etc. (48). By The Standard Tablet and Pill Co., Ltd., Hove. 376,912/13/14/27 (associated), 376,965.

Births.

FURNIVAL.—At 10 Rutland Park, Sheffield, on March 24, the wife of Stephen Furnival, Ph.C., of a son.

GIRDWOOD.—At 80 St. Vigeans Road, Arbroath, on March 19, the wife of Thomas Girdwood, pharmacist, of a son.

IDDON.—At 14 The Oval, Garden Village, Hull, on March 25, the wife of Victor H. Iddon, chemist and druggist, of a daughter.

Deaths.

BADCOCK.—At 73 St. John's Road, Waterloo, Liverpool, on March 23, Mr. Daniel Badcock, Ph.C. Mr. Badcock, who was about sixty-five years of age, and passed the Major examination in 1872, removed from Barnard Castle to the Liverpool district ten years ago. For short periods he acted as manager, assistant, or *locum tenens* in two central pharmacies, while latterly he had devoted his attention to a business of his own at Waterloo. He became a member of the Liverpool Chemists' Association, and won general esteem by his ability, courtesy, and assiduity. Both by the profession and his clients his loss is mourned. The funeral took place at Barnard Castle on Tuesday.

FOSSE.—At Ilfracombe, Devon, on March 24, after a short illness, Mr. Alexander Farre Fosse, chemist and druggist, 329 Old Kent Road, London, S.E. Mr. Fosse had gone to Ilfracombe for a rest, and died unexpectedly. He passed the Minor examination in June 1876, and three years later started the business in Old Kent Road. He is survived by Mrs. Fosse and a daughter.

HARTWICH.—On February 26, Dr. Carl Hartwich, Professor of Pharmaceutical Chemistry and Pharmacognosy in Zurich University.

MIDDLETON.—At 25 Lister Gate, Nottingham, on March 16, Mr. Ambrose Middleton, chemist and druggist, aged sixty-six.

NAPIER.—At 14 Greenhill Gardens, Edinburgh, on March 23, Mr. Andrew Nelson Napier, eldest son of Mr. Duncan Napier, herbalist, Bristo Place, Edinburgh. Mr. Napier was a very popular man. Another brother, Mr. Duncan Napier, chemist and druggist, was also associated with the Bristo Place business of his father, and is now serving with the Colours.

STUBBINS.—At 40 High Street, Warwick, on March 19, Mr. Henry Stubbins, chemist and druggist, aged fifty-one.

WRIGHT.—In Dublin, on March 18, Mr. Charles H. Wright, late Registrar of the Apothecaries' Hall of Ireland, aged eighty-nine.

Died on Service.

HANKINS.—Killed in action, Private Herbert Hankins, Royal Field Artillery, formerly assistant with Mr. C. A. Hedley, chemist and druggist, Rushden. Some time ago he was awarded the Military Medal for bravery.

WALMSLEY.—Killed in action, Gunner T. H. Walmsley, R.G.A., who was a junior partner in the firm of Walmsley Bros., wholesale druggists and drysalters, Halifax, aged thirty-four. He leaves a widow and two children.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Lead in Cassia Oil.—Schimmel tests this by shaking 100 grams of the oil with 1 gram of tartaric acid; set aside for twenty-four hours, and filter from the precipitate. Oils which showed a distinct lead-reaction when a few drops were agitated with H_2S water did not contain a trace of lead after this treatment.

Cedar-wood Oil.—"Nature," reporting on a sample of this immersion oil received from Flatters & Garnett, Ltd., Manchester, says that the refractive index was stated to be 1,510, but found to be well above this—viz., 1,518. Immersion oil has hitherto been supplied from the Continent, and our contemporary is glad to direct attention to this British-made oil, which seems to fulfil every requirement.

Turkey-red Oil. Kobert and Greuel ("Collegium," 1916, pp. 261 and 305) have conducted a biological research in respect to Turkey-red oil, or solvine. They show that solvine dissolves blood-corpuscles, a transparent red liquor being obtained. This afterwards becomes cloudy as the oxyhæmoglobin changes into globin and hæmatin. The resemblance to saponin of the sodium salts of ricinolic acid contained in solvine is pointed, and it is suggested that saponins could be employed in many branches of industry in place of Turkey-red oil.

Constituents of Agar-agar.—Mr. Yoichiro Takao, in a communication to the Pharmaceutical Society of Japan on seaweeds which are used for the manufacture of agar-agar, states that Formosa sends five kinds—namely, *Gelidium Amansii* (Lamx.), *G. japonicum* (Harv.), *G. pacificum*, *G. subcostatum*, and *Pterocladia capillaceum*. *Gelidium Amansii* supplies the best kind of agar-agar from Japan. The others are of inferior quality, and are mostly used for adulterating the first-named one. In *Pterocladia* the mucilage-content is so small that the weed cannot be used alone for the manufacture of agar-agar. The mucilages of *Gelidium Amansii*, *G. pacificum*, and *G. subcostatum* give a violet colouration with iodine solution, while with *G. japonicum* and *Pterocladia capillaceum* this reaction does not take place. On hydrolysis all the five seaweeds yield galactose, besides small quantities of fructose and arabinose, and by oxidation also mucilage acid, but no saccharic acid.

Tschirchine.—Glücksmann ("Pharm. Presse") announces the discovery of a new principle in *Cinchona succirubra* which he calls tschirchine. It is a green-coloured substance prepared as follows: The cinchona-bark is reduced to coarse powder and mixed with an equal weight of glycerin, with which it is heated on a water-bath. In Soxhlet extraction apparatus the tannates of the alkaloids are then extracted with warm methyl alcohol, in which the green substance is soluble. It has, however, the characteristic of being nearly insoluble in cold methyl alcohol. After the methyl-alcohol extract has been allowed to cool it is filtered, and the green-coloured substance that remains on the filter is washed with cold methyl alcohol until the filtrate is quite colourless. The green substance was not identical with chlorophyll, from which it differs in its chemical and spectroscopic properties. The name "tschirchine" is given in honour of Professor Tschirch, the great pharmacognosist. Glücksmann is conducting further researches to find out whether the barks of all cinchona species contain this substance, and whether it bears any resemblance in its chemical structure to the cinchona alkaloids or thalleioquin resin.

AN ITALIAN PHARMACEUTICAL JOURNAL, hard hit by the times, pleads for more considerate support. It states that the medical profession in Italy, with 25,000 practitioners, has 500 medical journals; 12,000 pharmacists have only ten!

Observations and Reflections.

By Xrayser II.

Several Good Candidates

for the Pharmaceutical Council, if report speaks truly, are in the field, but I have not seen any complete list of them, and none of them appears as yet to have made known his views to the constituency. It is much to be hoped that there will be no delay in formulating a programme in which all progressive candidates (and let us also hope they are all progressive) can agree. If a group of seven could be formed, all pledged to united action, their impact on the political situation, whether they were returned or not, would be immense, and in its ultimate effect more helpful towards reform than the immediate success of one or two of the most advanced candidates here and there. And if such a group could secure, as with the right programme it might, the support of the majority of voters, the return of the whole number would, of course, be as easy as that of one or two.

Pharmaceutical Organisation,

what changes are required in it, and the steps necessary to bring them about, have been under consideration by a special Committee of the Pharmaceutical Council, which now invites Local Associations to submit their views. Apparently it is the Society's own organisation that is meant, and the question arises, What, precisely, does the term mean when so applied? Are we invited to suggest desirable changes in the constitution of the Society, or only in the mode in which its activities are arranged and co-ordinated? When I said the other week that the Society's organisation needed revision, it was the larger aspect of the question that I had in view, and I hope the Associations will understand the invitation as applying to that. Let them demand that the Society shall be thoroughly reorganised on the democratic model, with territorial representation, consentaneous election of the whole Council, with no co-optation, and if the demand is received sympathetically I shall begin to have some hope; but unless the heart and brain are thus brought into direct vital relation to the whole body it is useless to tinker with such inferior parts of the organism as local secretaries and executive committees.

The Official Mind

as reflected in the reply of Sir Albert Stanley to the deputation from Manchester on the subject of the Business Names Registration Act, appears to hold that since such registration must necessarily inconvenience some people it does not matter how many, or how great the inconvenience may be. The deputation asked for an amending Bill, on the ground that since the prevention of alien enemies from trading under British names is the only object aimed at, simple registration is all that is needed. The scrapping of stationery in the form of circulars, showcards, catalogues, and business letter-paper necessitated by the present Act is sheer waste, and serves no real purpose whatever. Obviously this is true. We are told that bottle-labels are not included in the stationery that will have to be thus thrown away, but there is point in what you said on February 10 witn regard to other labels, and the matter is one which closely concerns pharmacists. But the official reply, though described as "sympathetic," promised no amendment, and the reason was substantially the one I have given.

[We may repeat that labels are not covered by the Act, and that "showcards mean cards containing or exhibiting articles dealt with, or samples or representations thereof." It may be possible to use a label so that it becomes a showcard, but that is another matter.—Editor *C. & D.*]

The Cultivation of Medicinal Plants

is far from being a question in which only the Insurance Commissioners are interested. It may be quite true that, in so far as the requirements of panel patients are concerned, the four drugs named—belladonna, digitalis, hyoscyamus, and colchicum—may be all that are absolutely necessary to avert positive famine. But, as you point out, there are many other drugs that are sold in large quantities and that can be grown or collected in Great Britain, and there is every reason why they, too, should receive attention. An immense amount of energy and no little money have been expended in the effort to popularise the idea, with the result that some progress has been made, but the statement issued by the Board of Agriculture will go far to stultify these efforts and lead to the abandonment of many attempts that with a little encouragement might have led to much useful result. A recent critic wrote of amateurs at work in framing regulations, and I cannot help thinking that here we find evidence of the same fault. If only the author of the report had consulted practical men—such a firm, for example, as Potter & Clarke—he would have learned that there are many other drugs that are sold to the public in large quantities, which are either indigenous to the country or have been acclimatised, and which can be readily grown and collected. The internal trade of the country for such drugs as are used for household remedies is still very large, while there are unlimited opportunities for developing the export of many drugs for which the market is still in London.

The Ringworm Case

reported from Cavan a fortnight since suggests a note on this very troublesome complaint. I have tried many remedies, but none has proved so safe and effective a cure as fresh sulphurous acid diluted with its own volume of water, preferably with a little glycerin added. The very worst case I ever saw, that of a girl who was literally covered with ringworm all over her head, neck, and shoulders, and had been under hospital treatment for it, yielded within a fortnight to the persistent application of this lotion. Another case, more troublesome, but treated with equal though not such rapid effect, was that of a litter of young pigs. I have, in fact, never known the application to fail, either with human patients or animals.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

248/59. Gat's pills.
248/58. Bell's gonorrhœa specific.
250/47. Vulcanised Rubber Co.'s products: supply.
251/71. "Salvoline."
248/61. Thanoline.
252/16. Shield's extract of male fern.
253/28. "Psycheia" cream.
253/22. Phloridzin: supplies.
253/21. "Roo" water-softener.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, The Chemist and Druggist, 42 Cannon Street, London, E.C.:

Armbrecht's coca-wine, 242/59
Bacteriological laboratory appliances, 244/13
Bacterol, 235/14
Boric acid, 244/44 and 251/62
"Bromo" toilet paper, 245/53
Bunion-straps, 243/56
Burbidges' hot-water bottle, 231/27
"Bynin" specialities, 245/56
Chemical glassware (British makers), 243/35
Clark's glycola, 243/63
De Jongh's cod-liver oil, 246/36
Eucaine hydrochlor., 247/34
"Ferocal" tablets, 238/24
Field's cattle oil, 238/26
Greaseproof boxes, 243/68
Himrod's asthma-cure, 232/7
Hudson's vegetable leaflets, 240/49
"Hypono," 237/15
Jackson's "Diamond" cement, 242/59
Jackson's insect-powder bellows, 232/9
Keybell's balsam of aniseed, 234/12 and 244/14
"Kiwi" boot-polish, 229/71
"Kraska" nail-polish, 240/49
"Lactogen," 231/16
"Liquozone," 235/74
"Listerine," 232/7
Machinery for rolling cotton-wool, 244/45
Maple sugar, 239/23
"Marcol" tablets, 234/1 and 245/61
"Mysantal" tooth-brushes, 231/6
Naldire's dog soap, 238/8
"Parasitox," 233/70
"Parrot" brand eucalyptus oil, 216/20
Payne's Reagent, 238/28
"Peristaltin" tablets, 240/50
"Petrogen" methyl salicylate, 234/11
"Ronoleke" hot-water bottle, 203/28
"Rudd" bed-warmer, 246/45
"Saloform" veterinary specialities, 239/21
"Sanoper" soap, 234/19
"Santoids," 221/4
Seeger's hair-dye, 240/49
"Sen-Sen" chewing-gum, 210/60
"Sugarlene" sugar substitute, 239/45, 224/56, 223/56
Tattooing-pencils, 236/9
Vacuum-flasks (British), 236/4

"SANITAS-CREOLEUM"
(WOOD PRESERVATIVE)
A unique preparation in three grades of Colour for preserving all forms of Wood and Woodwork against the inroads of fungoid and insect life.
In Tins, Drums, and Casks.
TERMS UPON APPLICATION TO
Sole Manufacturers:
"SANITAS" CO., Ltd.
Limehouse, LONDON, E.

BRITISH
ABSOLUTE ALCOHOL
Jas. Burrough Ltd. D.1. Cale Distillery, Hutton Rd., LAMBETH, S.E.

"A revolution in the art of Urine Testing."—*Medical Press & Circular.*
ENDOLYTIC TUBES
"The Laboratory in the Waistcoat Pocket."
Wholesale Terms on application to the Sole Proprietors:
FLETCHER, FLETCHER & Co., Ltd., HOLLOWAY, LONDON, N.

Editorial Articles.

The Metric System.

At the present time it is in accordance with the fitness of things to boost the metric system of weights and measures, and this is being done in the United States as well as in the United Kingdom. At the annual meeting of the National Drug Trade Conference which was held in Washington in January it was resolved to "recommend the general adoption of the metric system as soon as practicable." Apparently this and probably exclusive use of metric weights and measures in the U.S.P. have given rise to a rumour on this side of the Atlantic that the metric system is to be adopted in the United States. Such rumours are entirely fallacious. The conditions remain in the United States what they are here: it is perfectly legal, but not obligatory, for anybody to use metric weights and measures for scientific and trade purposes. So far as we are concerned, this condition was secured in this country as described in the *C. & D.*, November 4, 1916, p. 43, when the late Charles Umney recalled the matter.

More about Sugar.

Lord Devonport has appointed a Committee to consider the system at present adopted by the Royal Commission on Sugar Supplies for the distribution of sugar, and to report what further steps should be taken to arrange the allocation of existing supplies. The Committee consists of Lord Somerleyton (Chairman) and Messrs. Thomas R. Ferens, M.P., Arthur Richardson, M.P., B. H. Burton, H. G. Emery, A. J. Giles, C. H. Liddell, and H. J. May, with Captain S. G. Tallents, of the Ministry of Food, as Secretary. We have addressed to the members of this Committee a letter in which we call their special attention to the fact that, besides its use as a food, sugar is employed in the manufacture of medicines, being in certain of them a necessary and preservative ingredient. Our letter contained references to official and unofficial preparations containing sugar, and attention was called to Captain Tallents' letter to us (*C. & D.*, February 10, p. 43) respecting the exemption of medicinal lozenges and cachous from the order as to the prices of sweetmeats. With each letter was enclosed a reprint of the article "Sugar Shortage" which we printed last week (p. 42), as to which we have received the following statement from the Ministry of Food:

"Your observations as to the effect of the Sugar (Restriction) Order upon the production of medicines, lozenges, and similar preparations will be duly noted. The position is, however, altered by the fact that the date January 1, in Article 2 of the Order, was inserted owing to a misunderstanding, as it was not Lord Devonport's intention that the Order should have a retrospective effect. An amending Order will be issued shortly."

We understand that negotiations on behalf of pharmacy are proceeding, and it is hoped that some means of distinguishing between dietary and medicinal uses will be found, as was done two months ago.

Alcohol Restrictions.

Last week we pointed out that the indifference on the part of the Government to recognise the needs of manufacturing chemists and wholesale druggists in the matter of freer supplies of spirit is becoming intolerable. We have since learned that there is now greater difficulty than ever in obtaining supplies of spirit from distillers, and users have to be put off from day to day with vague promises of delivery. To make the position worse, but probably in view of anticipated Budget withdrawals, it has now been decided (March 1917) by the Commissioners of Customs and Excise to restrict the deliveries of spirits and wine from bond for home consumption to 50 per cent. of the deliveries in the calendar year 1916. This is the subject of an official notice circulated to distillers and others, from which it appears that those who wish to obtain spirits or wines from ship's side or warehouse must make application for an authority to the Secretary, The Advisory Committee (Customs and Excise), 110 Cannon Street, London, E.C. 4, on an official form obtainable at any Customs and Excise office. On the back of this form the applicant has to fill in full particulars of the spirits cleared in 1916. Authorities will be issued in respect of a half-year—that is to say, the six months commencing on April 1 or on October 1—and it is to be noted that the quantity of spirits or wine deliverable during the period for which the authority is granted will not exceed 25 per cent. of that delivered during the whole year 1916. Manufacturing chemists, perfume-manufacturers, chemists and druggists, and others who are permitted to receive immature spirits must make application on a special form, obtainable from the Surveyor of Customs and Excise, Thames Street, London, E.C., and supply particulars of the spirits so delivered in the year 1916. This drastic cutting-down of spirit for manufacturing-purposes will not of course affect exports of spirituous medicines, but it adds to the disabilities under which manufacturing chemists and wholesale druggists labour.

Sulphate of Copper.

In our issue of March 10 (p. 95) we drew attention to the fact that the Board of Agriculture had made an arrangement with the makers of sulphate of copper, fixing the price for consumption in the United Kingdom at 50*l.* per ton in lots of not less than 2 cwt., in makers' bags, delivered free on rail at makers' works, net cash with order. We now learn that practically all the makers are

prepared to sell at this price, but purchasers must give a guarantee that the sulphate shall be used for agricultural purposes only (as in the preparation of Bordeaux wash), and a written undertaking has to be given to this effect. Chemists can, of course, participate in the business, but the price charged by them for small lots must not exceed 6½*d.* per lb. Considerable quantities of copper sulphate are used in potato-spraying (especially in Ireland), it being estimated that from 12,000 to 13,000 tons is required for this purpose, but we are afraid the quantity for disposal will be much less, although we understand that arrangements are being made to increase the supply. Potato-spraying is not in full swing until May or June, but orders for copper sulphate should be placed at once, as a difficulty in regard to supplies may arise later. At the present price of electrolytic copper (about 150*l.* per ton) and with sulphuric acid dear and difficult to get, the profit on copper sulphate to makers at 50*l.* per ton can only be small; in fact, we are informed that the price means a loss. It is distinctly understood that the Board of Agriculture does not control the export price; which is about 62*l.* per ton for 98 to 99 per cent. pure. Export licences, are however, very difficult to get, and a rumour has been current that they have been withdrawn. Previous to the war, Great Britain was a large producer of copper sulphate, none being imported. The exact production was not known, but we notice that the exports in 1914 were 67,900 tons, in 1915 65,211 tons, and in 1916 38,812 tons. The consequence is that France, Italy, and Spain (where it is largely used in the vineyards) have had to put up with much reduced supplies, and assistance has been sought from the United States, which only produces about 20,000 tons annually. It is now evident to the authorities that home consumers' fertilisers must be protected, and we fear that for some time to come the export trade in copper sulphate will dwindle still further, only 2,044 tons being exported in February, against 3,037 tons in February 1916.

Circulars and Paper.

Fresh trouble for all sections of the drug-trade appears to have arisen under the Orders issued by the Royal Commission on Paper. It is generally known that the Commission is conserving the paper-supplies of the country. For a year the *C. & D.* has been subjected to its Orders, one effect being that the numbers for 1916 contained 1,298 literary pages, compared with 1,672 pages in 1915. Adaptation of editorial methods to the needs of the day has helped us to prevent sacrifice of matter that is of value to our readers (indeed, more subjects were dealt with in 1916 than in 1915), and we know that subscribers will support us in any similar sacrifice, if such has to be made for the country's service. Early in March the Board of Trade issued an Order forbidding the despatch after March 10 of "any tradesman's catalogue or price-list or of any advertising circular" unless requested by the person receiving it. The time was extended to March 24, and this week April 21 (p. 53) has been fixed as the date. The immediate cause of the inquiries that we have received is a provision contained in a general licence, dated March 17, under which the Commission permits, until further notice, the despatch and delivery of

(*d*) Advertising circulars which, on or before March 2, were already packed and sealed up with articles which are sold in sealed packages, but such circulars must not be inserted in any parcels, cases, or packages after that date.

This applies to all proprietary medicines and other goods with which circulars are enclosed in the wrapper. Since March 2 packing of the goods with such circulars has been barred, the purpose being to save paper, but the wording of the Order shows that it is not an offence to sell goods that were packed before March 2, and it will be safe for retailers and wholesalers to regard goods in stock as according with the Order. Manufacturers or other packers must, of course, realise that anything illegal which they do may get their customers into trouble: so they will ensure that the Order is conformed with by them. In this connection a subscriber puts two questions:

"Is the Order against the sending-out of circulars, etc., to be interpreted as against the enclosing of a handbill in a parcel?

If so, is it quite in order to continue using such handbills merely as wrapping-paper?"

The Order is not in the meantime to apply to "advertising circulars other than traders' and tradesmen's advertising circulars," thus it includes a chemist's circular about, *e.g.*, his paraffin emulsion, or telling people how excellent a chemist he is. Such circulars must not now be put in parcels, unless the customer wants them, and it is for the chemist to get the necessary authority. We see nothing in the Order stopping the use of handbills as wrapping-paper, but it is to be expected that such handbills will no longer be supplied by manufacturers, as one of the objects of the Order is to limit the use of paper.

Chemical Trade in February.

Supplementing our remarks on the February Board of Trade Returns in our issue of March 24 (p. 39), we have to note a slight decline of 378,405*l.* in the exports of chemicals, drugs, and allied produce compared with February 1916, the total last month amounting to 1,684,977*l.* The bulk of this decline occurred in chemical manures, which fell in value by almost 200,000*l.* Fertilisers like ammonium sulphate, superphosphates, basic slag, etc., are wanted at home, hence the decline in exports. Bleaching-powder is another product which can only be sparingly exported; the February figures were 10,721 cwt., or 10,600 cwt. less than in February 1916. The exports of sulphate of copper amounted to 2,044 tons, or practically 1,000 tons less than in February 1916. Our exports of medicines register a decline of 60,500*l.*, being valued at 272,248*l.* against 332,782*l.* in February 1916, but compared with February 1915 there is an increase of 40,000*l.* Only 26,544 oz. of quinine was allowed to be exported, and it was mostly for the Colonies. There was a drop of 60,348*l.* in exports of coal products not dyes, the total being 169,581*l.*, compared with 229,929*l.* in February 1916. There were no exports of crude glycerin, while of distilled 4,872 cwt. was shipped, or 2,050*l.* more. The soda-compound shipments amounted to 339,416 cwt., or 147,473 cwt. less, caustic soda showing the biggest decline, after which were soda ash and soda bicarbonate. An increase in sulphuric acid of 408 cwt. (823*l.* worth) is noted, shipments amounting to 1,327 cwt., and this is the only scheduled item to show an increase in quantity. Ammonium muriate, 7,087 cwt., shows a decrease of 620 cwt. in quantity but an advance of 1,534*l.* in value. In spite of the falling-off in painters' colours by 46,126 cwt., or 30,520*l.*, to 233,613*l.*, the volume of business compared favourably with previous years, and much more could be done if circumstances permitted. A bright spot is an increase of 25,671*l.* in "miscellaneous chemicals," which were valued at 375,097*l.* It must not be forgotten that February 1916 contained an extra working day compared with this year, so that the results, in view of present restrictions, are satisfactory. In imports of chemicals and the like our total receipts were 1,610,581*l.*, being 584,157*l.* less than in February 1916, but 228,021*l.* more than in February 1915. Decline is shown in the bulk of scheduled items, and occurred chiefly in dyestuffs and tanning-substances, especially extracts for dyeing. Other decreases included bleaching-materials by 1,097 cwt., boron compounds by 11,857 cwt., glycerin by 2,956 cwt., potash compounds by 35,201 cwt., and soda compounds by 13,099 cwt. Quinine fell off by 212,010 oz. (31,082*l.*), to 230,298 oz., but cinchona improved by 588 cwt., to 2,162 cwt. There was also a decrease of 33,030*l.* in imports of unenumerated chemicals, in which category are pharmaceutical chemicals and many raw materials, like acetate of lime, acetone, and sulphuric acid.

A Censorship is suggested of the advertisements of proprietary medicines and medical appliances in the German newspapers by the German Newspaper Association. The censors would decide upon the acceptance or rejection of doubtful advertisements.—*Münch. med. Wochenschrift.*

Business Changes.

Boots, Ltd., have secured premises for a branch in the Square, Wellington (Salop).

Mr. Henry Masters, Ph.C., of Allen & Hanburys, Ltd., has removed from Eccles to 10 Cumberland Road, Southport.

Mr. Alexr. H. Pickering, general-produce merchant, has removed from Dunster House, Mincing Lane, London, E.C., to 4 Cullum Street, E.C.

Mr. J. F. Cunningham, chemist and optician, has purchased the business of the late Frederick Tree, 56 and 57 King's Road, St. Leonards-on-Sea.

Madero Bros., chemical-merchants, New York, have leased for a period of years the entire building at 100 John Street, as their warehouse. The firm have also acquired additional space at 115 Broadway, which will be occupied by their export department.

We learn that a change has been effected in the constitution of the business of R. W. Greeff & Co., Thames House, Queen Street Place, London, E.C., and Lloyd's Bank Buildings, Manchester, and it is now being carried on entirely by Mr. Alfred John Thompson (who has been actively associated in it for many years), with the assistance of the managers and heads of departments, under the same style and upon the same lines as heretofore. It is intended at a later date to convert the business into a limited company.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

The Easter Holidays.

The House of Commons will adjourn for the Easter Recess on Tuesday or Wednesday next, according to the state of public business, for a fortnight.

British Trade Corporation.

It was announced in the House of Commons on March 28 that an institution, to be known as the British Trade Corporation, will shortly be formed, under royal charter, to afford credit facilities for British trade on the lines of the recommendations of Lord Faringdon's Committee, especially in cases falling outside the scope of existing banks and banking-houses.

Venereal Diseases Bill.

This measure has been in the House of Commons for a fortnight, and for the third time was down for second reading on Monday, but was not reached. It went through the House of Lords as Lord Rhondda introduced it, without amendment, and was read a third time and sent to the House of Commons on March 15, where it was read a first time. Monday, March 26, was the third time that it was down for second reading, and it is expected that the reason for holding it over is to enable the Committee which is dealing with the Criminal Law Amendment Bill to take this one into consideration also, and it is expected to be considered on April 12.

The Nationality of Andrea Angel.

Asked in the House of Commons on Monday, March 26, by Mr. W. Thorne, M.P., as to whether the late Mr. Angel, M.A., B.Sc., the chief chemist of the factory where the East-end explosion occurred, was a German or of German origin, Dr. Addison said he is glad to have an opportunity of denying the cruel and stupid rumour. Except for the fact that one of his grandparents was an Italian, Mr. Angel was entirely of British birth and extraction. The rumour is all the more cruel, as the evidence of the surviving employés in the factory seems to show that Mr. Angel, had he wished to do so, could have left the factory before the explosion, and that he sacrificed his own life in order to warn others.

King George V. has conferred the Edward Medal of the First Class upon Mr. Angel.

Insurance Advisory Committee.

Our Parliamentary Correspondent learns that at the first meeting of the reconstructed Insurance Advisory Committee, Sir Edwin Cornwall, M.P., the Chairman, touched upon one or two matters of current importance, including the effect of the Act of 1915 on the position of discharged and disabled soldiers. Among those who attended were Mr. W. S. Glyn-Jones, M.P., and Mr. J. Rutherford Hill (Secretary of the Pharmaceutical Society in Scotland). A further meeting of the Committee will be held on April 4. In the course of a short time the Ryan reports will come up for consideration and the advisability of introducing legislation in connection therewith.

The Cocaine Report.

As announced last week, an interview took place at the House of Commons on Tuesday evening between a number of members of Parliament and representatives of the Incorporated Dental Society in regard to the recently issued Report of Sir Charles Hobhouse and his colleagues on the Home Office Cocaine Committee. Mr. P. W. Raffan presided, and among those present were Sir C. Hobhouse, Bart., Mr. J. Rowlands, Mr. A. W. Yeo, Mr. Tickler, Mr. Jacobsen, Mr. Tootill, Mr. McGhee, Mr. W. Tyson Wilson, Colonel Pryce-Jones, Mr. Murray Macdonald, Mr. Chancellor, Mr. J. D. Kiley, Mr. Dundas White, and Mr. Bartley Denniss. In the course of a general discussion on the Committee's Report and recommendations, general approval was expressed in regard to the outcome of the Committee's investigations. It was decided to ask the Home Secretary to receive a deputation at an early date to urge him to put the recommendations of the Committee into effect at the earliest possible date.

Criminal Law Amendment Bill.

Mr. Glyn-Jones's amendment to Clause 7 was again brought forward by him at the sitting of the Standing Committee on Tuesday, March 27. The text of the clause is given in the *C. & D.*, February 24, p. 49, and Mr. Glyn-Jones's amendment in *C. & D.*, March 17, p. 46. He now said that the amendment was a sweeping and stringent one, dealing with the advertisement of certain articles. He had hoped to have had an opportunity of discussing the matter with the Home Secretary, but when he called at the Home Office he did not see him. The Home Secretary said he anticipated having the opportunity of discussing the matter with the hon. member in the House on Monday, but it apparently did not present itself. The Chairman then formally put the motion: "That the words proposed to be inserted stand part." The Home Secretary said they had already passed a clause which imposed penalties, but this clause went further and made it penal on the seller in a great many particulars. It was too hard on respectable chemists, and he thought it was going too far—in fact, it would make the clause absurd. Mr. Duncan Millar hoped the Home Secretary would see his way to meet the hon. gentleman who had moved the amendment, and give effect to it in some way. It represented the views of a very large body outside the House. He hoped the Home Secretary would consent to see members of the Pharmaceutical Society and discuss the matter with a view to arriving at some conclusion. Mr. Dillon said many persons felt an amendment of this nature to be necessary. The Home Secretary replied that he was ready to reconsider this point, and to discuss it with the hon. gentleman (Mr. Glyn-Jones). He rather thought, however, the hon. member's object was not to add to what was in the Bill, but to replace it. He could not accept the amendment that day, but would give the matter consideration before Report stage. Mr. John Burns thought they ought not to attach too much importance either to the doctor or to the chemist in this particular respect. Their duty was to combat this particular disease, and if they were to accept the amendment as it stood, the door through which the respectable chemist walked would be the very gate by which the quack would enter, and the object of the hon. member would be defeated. An important point for consideration was whether they should insist that qualified people, and not unskilled and unqualified persons, should be consulted. If they were going to give a relative monopoly—and it did give a relative monopoly—then he would prefer that that should be given to the medical profession. He trusted the Home Secretary would in substance stick to his clause, as it really did all that the hon. member for Stepney wished should be done. Mr. Herbert Samuel also very briefly addressed the Committee, remarking that he really hardly knew what it was the chemists wanted. Mr. Glyn-Jones said he should not press the amendment at this stage, and it was withdrawn.

Our Parliamentary Correspondent adds that although a majority of the Committee were with him, Mr. Glyn-Jones, M.P., did not press his amendment in view of the promise made by the Home Secretary that between now and the Report stage he will carefully consider the arguments which had been put forward. The hon. member, with others, will be invited to confer in the interim with Sir George Cave on the points raised, but he felt that it would have materially weakened his position as a negotiator if he had carried his point to a division and been beaten.

The Committee met again on Wednesday, but nothing of a medical or pharmaceutical nature arose.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Birmingham.—A meeting of the Pharmaceutical Committee was held on March 23, Mr. J. Poole in the chair. The Secretary reported that for the year 1916 the number of insured persons on doctors' lists was 293,060, the total number of scripts dispensed 804,204, and the total value 18,302*l.* 8*s.* 11*d.* A draft circular for the conveyance of information to panel chemists on various subjects was submitted and approved.

Bournemouth.—At the meeting of the Insurance Committee on March 26, the financial statement for the year 1915 was presented after being duly audited. The items of expenditure included 620*l.* 17*s.* 2*d.* for the Drug Fund. It was recommended that the balance of accounts in accordance with the figures of the Pricing Bureau when received, *plus* advance in respect of the accounts rendered prior to the prices being available, less a proportion of the amount of the sum allotted in respect to the Pharmaceutical Committee's administration, be duly paid as soon as the figures are received from the Pricing Bureau. This was adopted. The Medical Benefit Sub-Committee stated that the report of the South-Western Pricing Committee for the period of January 1 to March 31 was received, showing that the ratio which the new Tariff prices bear to the drug prices for the purpose of Article 5 of the Medical Benefit Regulations, 1916, expressed as a percentage of the latter, is 84.08. It was recommended that this be duly noted.

Great Yarmouth.—At a meeting of the Insurance Committee on March 23, the new list of stock medicines was received from the Commissioners. The Committee was also informed that the general methods of procedure in testing medicine issued to insured persons is to form the subject of another circular. Mr. J. S. Shearman, chemist and druggist, was elected a member of the Committee to represent the deposit contributors, and he was placed on the Finance and General Purposes Sub-Committees.

Hampshire.—A meeting of the Hampshire Pharmaceutical Committee was held at Winchester on March 21, Mr. Bartlett in the chair. A letter was read from Mr. Wilson, Southampton, resigning his seat on the Committee. Tariff revision was discussed, and the general details agreed upon. The Clerk to the Insurance Committee had supplied the following statistics for 1916: Number of prescriptions dispensed, 159,441; paid to chemists, including war allowance of 0.3*d.*, 4,282*l.* 0*s.* 7*d.*: amount paid to chemists in 1915, 4,329*l.* 7*s.* 1*d.* It was decided to send a recommendation to the Panel Committee that where glycerin is ordered in mixtures in the local Pharmacopœia or any other formulæ in use in the county, it be omitted and chloroform-water substituted. It was also decided that representation should be made to the Ministry of Food with regard to the shortage of sugar for pharmaceutical purposes.

London.—At the meeting of the Insurance Committee held on March 22, Dr. Shaw, referring to the report of the Finance Committee regarding payment of administration expenses of the Panel and Pharmaceutical Committees (see *C. & D.*, March 24, p. 40), said he hoped they would not follow the recommendation, for it could not fail to cause friction between the two Committees. Mr. Rockcliff said that the question is, Are the Committee prepared to accept the risk of payment? The sum already paid by the Committee to the two Committees exceeded 14,000*l.*, and if the payment was a penny in all they were overpaid to the extent of 9,000*l.* With regard to the legality of the payment, he had a letter from a well-known lawyer, stating that he had carefully considered the point raised, and was of opinion that the auditor was quite right in the view indicated. Eventually it was decided to ask the Panel and Pharmaceutical Committees to give the required indemnity. The report of the Medical Benefit Sub-Committee regarding the shortage of glycerin, to which reference was made last week (p. 40), was negatived.

Middlesex.—A meeting of the Pharmaceutical Committee was held on March 14 at the Holborn Restaurant, Mr. Herbert Skinner in the chair. Several details relating to military service had to be settled, as "combing-out" appears to be a continuous process. The terms of Insurance dispensing-service suggested for 1918 were considered in detail with the analysis for the year 1916 as a guide, and certain principles agreed upon which are in the first instance to be laid before the Local Associations Executive. The report of the Middlesex Prescription-checking Department stated that the number of February scripts received at the Pricing Office was 75,000, and both pricing and checking are now well advanced. Up to the end of February the total number of Middlesex scripts received for the year 1916 was 763,542, as against 838,835 for 1915, and the average cost per script was 7.26*d.*, as against 8.12*d.* for 1915. The total number of prescriptions for 1916 was approximately 895,000, and the average cost per prescription was 6.10*d.*, the average cost of ingredients being 3.29*d.* and the average dispensing-fee 2.90*d.* per prescription, including the extra establishment-charge. There were 3,720 Middlesex accounts in 1916, as against 3,529 in 1915. The statistics for the last five months of the year have shown a marked decrease in the cost, both per script and per prescription. This decrease was largely due to the operation of the reduced fee for dispensing stock mixtures, but also in part to the fall in the prices of several important drugs. It is stated that it seems clear that an allowance of 1*s.* 6*d.* per insured person will almost, if not quite, cover the whole of the chemists' accounts for 1916, including the extra establishment-charge. A further addition of 13 to 15 per cent. would be necessary to bring the total payments up to the level of the 1915 scale.

Newcastle. A meeting of the Insurance Committee was held on March 20, when the recommendation was adopted of the Panel Committee and the Medical Benefit Sub-Committee that no surcharges on doctors be made for the first half of 1916. One or two doctors are to be warned to be more careful in their prescribing. The Chairman of the last-named Committee said it should be clearly understood that whatever a drug costs it is to be employed if the case requires it.

Suffolk (E.).—At a meeting of the Insurance Committee held last week at Lowestoft, exception was taken by Mr. Jeacock to a circular sent out by the Pharmaceutical Committee, inviting chemists to criticise doctors' prescriptions. It was stated by the Clerk that the Insurance Committee had nothing to do with the circular. A complaint that extra payment was accepted for an expensive drug was referred to the Joint Medical and Pharmaceutical Sub-Committee.

SCOTLAND.

Edinburgh.—A report by the Medical Benefit Sub-Committee was presented at a meeting of the Edinburgh Insurance Committee on March 22. The report stated that it had been decided to send to the Pharmaceutical Committee for their opinion one form for four dozen acetylsalicylic-acid tablets and 2 oz. of compound methyl-salicylate ointment; one form for 2 oz. of compound methyl-salicylate ointment and 12 oz. of artificial Carlsbad salt, at a total cost of 4*s.* 2*d.*; also the forms for four cases of potassium-iodide mixtures, etc., the cost per case being respectively 10*s.* 3½*d.*, 7*s.* 3*d.*, 8*s.*, and 8*s.* 6½*d.* In the case of a mixture at a cost of 3*s.* 1*d.* for potassium iodide 2 dr. and aromatic spirit of ammonia to 6 oz., the dose being a tablespoonful thrice daily, it was decided to communicate with the chemist and ask what was supplied. A letter was read from the Scottish Insurance Commissioners, drawing attention to three scripts. It was decided to send two to the Pharmaceutical Committee for their opinion—viz., one form in which the doctor had ordered one roll of 1-in. zinc-and rubber adhesive plaster, and the chemist had marked the form "Charged patient for above," and one form in which the doctor had ordered dressings and mixture containing 3 oz. paraldehyde, etc., costing 7*s.* 4½*d.*, the paraldehyde alone costing 5*s.*: and it was decided to ask the chemist for an explanation of a form where 2 oz. of compound syrup of glycerophosphates had been altered to 3 oz. and not initialled by the practitioner. Observations from the Central Checking Bureau on the emergency list of drugs and appliances for 1917 were considered. With regard to rubber adhesive plaster, it was decided to ask the chemists to give the makers' names, and, further, that adhesive plaster made by American firms should be allowed. With regard to the hypodermic tablets of cocaine hydrochlor., it was decided to refer the Bureau to The British Drug Houses, Ltd., for its price. The Pharmaceutical Committee's estimate of administrative expenditure for 1917 was 57*l.* A letter was read from the Pharmaceutical Committee with reference to the illegibility of prescriptions, and it was decided to ask the Pharmaceutical Committee for the names of the doctors involved. The Pharmaceutical Committee wrote expressing their opinion that the total prohibition of a proprietary where the substitute is obvious, such as vaseline and boroglyceride, should cease. The Committee adhered to their decision to disallow all proprietaries. A chemist's explanation with reference to two different formulæ, each for 12 oz. of compound eucalyptus-cream, was considered, and it was decided to price each form as 6 dr. of eucalyptus oil, and to warn the doctor and chemist to be more careful.

Associations' Winter Session.

Birmingham.—A meeting of the Council of the Birmingham Pharmaceutical Association was held on March 23, Mr. H. Buckingham (President) in the chair. One new member was elected. A suggested scheme for the dispensing of prescriptions issued at the school clinics at the same rates as the dispensing for hospital out-patients was discussed and approved; the Birmingham chemists on the panel for hospital dispensing will be advised of the details so soon as the scheme has been completed. A General Purposes Committee, consisting of the President, Messrs. Barlow, Thompson, and Whittock, and the Secretary, was elected. It was decided to open a local subscription list for the Parliamentary Representation Fund.

Cambridge.—A meeting of the Cambridge Junior Pharmaceutical Association was held on March 20, when Mr. A. H. Course gave a lecture on *Photography*. After giving the derivation of the word photography, the lecturer proceeded to deal with the question of light and refraction and the use of lenses. The chemical side of photography was next dealt with. The last part was devoted to the explanation of what happens when negatives are intensified, and how prints are toned. Mr. Course demonstrated, by means of a mirror and reading-glass, the principle of the camera obscura.

Chemists' and Druggists' Society.—At a Committee meeting held in Belfast, the President (Mr. W. J. Rankin) in the chair, the following Sub-Committees were appointed for the year: *Law*, Messrs. Suffern, Walsh, S. Gibson, Carse, and Haslett; *Rooms and Social*, Messrs. Frackleton, Wilson, Abernethy, Johnson, and Martin; *Finance*, Messrs. S. Gibson, W. Jamison, Walsh, Frackleton, and Suffern. A resolution of sympathy with Mr. Robert Cambridge, J.P. (Carrickfergus), in his serious illness was passed.

Hampshire.—A meeting of the Hampshire Pharmacists' Association was held at Winchester on March 21, Mr. Davies (President) in the chair. The following nine new members were elected: Mr. Nirehall, Wickham; Mr. A. C. Davies, Farnborough; Mr. Horne, Eastleigh; Mr. Kent, Gosport; Mr. Martin, Winchester; Mr. Pearson, Woolston; Mr. Righton, Havant; Trimming & Co., Alton; and Mr. Woodham, Odiham. The report of the Pharmaceutical Committee was received and adopted. Mr. C. H. Baker then read a paper on *How we may Improve our Pharmacies*. The improvement which has taken place in the appearance of pharmacies within the past few years has been almost entirely on the trading side, there being very little in the average window-show to indicate that the business of a pharmacist is the manufacture of pharmaceutical preparations and the dispensing of medicines. Dealing then with the arrangement of the pharmacy, Mr. Baker said that the dispensing-screen should not be a high one, so that the public can see a little more of the way chemists carry on their work. It is false economy to be short of measures and other utensils employed in dispensing. He advocated using the space behind the serving-counter for the display of goods in everyday demand rather than devoting it to gold-labelled bottles. The space should be divided into cases for food, pharmaceutical preparations, and own proprietaries and toilet articles. In putting up proprietaries adopt a distinctive style, and do not be niggardly as regards labels, etc. He regretted the tendency to purchase ready put-up articles, but admitted that some goods, such as salines, are better bought ready packed. The larger-sized proprietary articles made in the pharmacy should not be neglected, as large sums are spent on advertised proprietaries even in poor neighbourhoods. Goods should be well displayed, but the various classes of articles should be kept distinct. The display of sundries should not be neglected. The general appearance of the pharmacy must be kept up continuously. "Avoid shabbiness; look prosperous." A discussion followed, and Mr. Baker received a vote of thanks.

Institute of Ophthalmic Opticians.—The annual general meeting was held at the Holborn Restaurant, London W.C., on March 22. Mr. A. Upson in the chair. The annual report contained a review of the work done during the year, and also a roll of honour of members who are serving with the Colours. Referring to the roll of honour, the Chairman said it is not complete, but he hoped members who had information on the matter would send it to the Secretary. The Benevolent Fund has 250*l*. in hand, and the membership has increased during the year. The report and balance sheet were adopted. The scrutineers reported on voting-papers for the election of seven councillors, with the result that the following were declared to be duly elected: Messrs. J. Adams, J. G. Aitchison, E. Beaumont, R. R. Roberts, E. K. Spiegelhalter, H. O. Wood, and J. Simpson Yeates. Messrs. Luther French, J. Jacobs, and H. M. Selfe were elected auditors. Votes of thanks were afterwards given to the officers.

Irish Assistants.—At a special meeting of the Cork Branch of the Irish Chemists' Association, Mr. W. Maloney presiding, a resolution was unanimously adopted, on the motion of Mr. J. F. Hogan, seconded by Mr. T. Wrixon, requesting the Cork Corporation to enforce the closing order *re* chemists' establishments at ten o'clock on week-nights, and 10.30 P.M. on Saturdays, and pointing out that the closing-hour in Dublin and Belfast was 9 P.M.

London (W.).—A meeting of the Western Pharmacists' Association was held at the Restaurant Frascati, Oxford Street, London, W., on March 22, the President (Mr. W. Wilkinson) in the chair. A resolution was passed in favour of the continuance of compulsory early closing. Mr. Edmund White then opened a discussion on *Present Pharmaceutical Organisation and the Policy of the Council*. He reviewed the position with regard to organisation, and expressed confidence that the present system would be strengthened as the result of the work of the newly appointed Committee on Organisation. The questions of territorial representation and trade organisation were discussed, and Mr. White took the view that a waiting policy is best. Dealing with the work of the Council, he said that the reformers and dissatisfied people apparently had failed to notice what has been done. He reminded members of the efforts on their behalf in connection with immature spirits, the cocaine regulations, military service, and the glycerin and sugar difficulties. Speaking of Insurance matters, he said that anything in the nature of a strike for better remuneration would be very risky unless the support of public opinion could first be assured. A discussion followed, and Mr. White, replying, said that the broad policy of the Council is to protect the interests of its members, to maintain their professional status, and to carry out its statutory duties. A vote of thanks to Mr. White terminated the proceedings.

Middlesex.—A meeting of the Executive of the Middlesex Pharmacists' Association was held at the Holborn Restaurant on March 14, the President (Mr. Herbert Skinner) in the chair. The report of the delegates from the conjoint Committee of the Metropolitan Executive on the candidates for the ensuing election for the Council of the Society was considered, and it was agreed to fall in with the suggestions made. Several resolutions were received from district Associations, one dealing with earlier closing, a second with the necessity for the regularising of the position of glycerin and sugar for the purposes of dispensing, and the necessity for local efforts to make the knowledge of the membership of the Pharmaceutical Society better known among the general public as a standard of the best pharmacists.

Monmouth.—A meeting of the County of Monmouth Chemists' Association was held at Newport on March 22, Mr. F. Clarke (Bedwas) in the chair. Mr. Benson Harries, President of the Newport Pharmaceutical Association, gave an address on *The South Wales and Monmouthshire Federation of Chemists*. While emphasising the professional side of the trade, he claimed that some organisation should be set up for the regulation of prices of proprietary goods, which cause them a good deal of trouble. There are well-known proprietary lines in South Wales which are not showing sufficient profit. At present there are in the country 10,000 drug-stores owned or managed by unqualified men. At these stores all goods sold by qualified chemists could be purchased, except poisons. These persons also enjoyed the same privileges regarding published formulæ, and could designate their shops pharmacies. This being so, their material salvation as qualified men must come from the professional side. If all doctors prescribed only, as is proposed in some quarters, prescribing chemists would cease. He strongly advocated the severance of dispensing from prescribing. At present the Royal College of Physicians prohibits its members from dispensing, and surely the time has arrived to apply the same rule to the whole of the medical profession. Under the new Venereal Diseases Bill doctors would supply drugs. This is most unjust and unfair to chemists. While admitting that something ought to be done to deal with the scourge, he contended that a certain amount of so-called vested interest should not be taken from chemists and handed over to doctors. In the discussion which followed, Messrs. Clarke, Evans (Cwmfelinfach), B. Thomas, Wilson (Caerleon), and others took part, and the following resolution was carried:

"That the Pharmaceutical Society be asked to do all in their power to see that the dispensing and supply of drugs and sera under the scheme for the treatment of venereal diseases is restricted to pharmacists, as is done under the Health Insurance Committee."

Wolverhampton.—A meeting of the Wolverhampton Chemists' Association was held on March 21, Mr. E. H. Bowdler presiding. The Secretary was instructed to write to various firms, asking them to place their proprietaries on the protected list of the Proprietary Articles Trade Association. The Secretary announced several alterations in the price of various soaps and foods. The offer of Martyns, Ltd., to print the monthly minimum price-list free of charge was accepted with thanks. The Wednesfield Drug Co. and Needhams, Ltd., were also thanked for contributions towards the expenses of the Minimum Prieing Committee. Mr. Hibbett then gave a paper on *Health and Disease*, which dealt with the methods of compiling the statistics of the Registrar-General and modern treatment of disease.

Trade Notes.

Easter Daylight can be made profitable. Rajar, Ltd., 10 Mobberley, in Cheshire, tell chemists in their advertisement how to do it.

The Government Regulations as to Advertising need not hit chemists, says F. A. Degen, F.I.S.A.C., who invites inquiries from them in regard to what they should do.

Newbery's Oxygen Tooth-powder.—The prices of this new dentifrice, issued by Francis Newbery & Sons, Ltd., Charterhouse Square, London, E.C. 1, are 36*s.*, 42*s.*, and 48*s.* per gross net.

Calox Tooth-powder.—We observe from a New York contemporary that McKesson & Robbins, New York, spent $100,000 in advertising Calox last year, and they are to do better this year.

Pears' Shaving-sticks.—Our reference last week, p. 47, was to the transparent shaving-stick. The price of the "Golden Series" opaque shaving-stick remains as before—namely, minimum retail price 1*s.* each, wholesale price 7*s.* 9*d.* per dozen.

P.A.T.A. Additions for March.—The following have been added to the protected list of the Proprietary Articles Trade Association: Antipon; Baldwin Manufacturing Co.'s goods; Malorene preparations; Montserrat Fruit Saline; Sanger's "1814" Bath-salts and Water-softener; Eurace.

Copper Sulphate for Potato-spraying.—The fact cannot be too well known that copper sulphate for potato-spraying is available at 50*l.* per ton for home consumption in the United Kingdom. The advertisement of the Mond Nickel Co., Ltd., 39 Victoria Street, London, S.W., gives full particulars as to how it is to be obtained at this price.

A Special Offer of Erasmic toilet-cream is made by Erasmic, perfumers, Warrington. The cream yields to retailers 73 per cent. on the cost price. The makers also make a special offer of Erasmic toilet-soaps, their advertisement showing the figures. It is also noted that the retail price of the 4*d.* tablet has been advanced to 4½*d.*, or 1*s.* 1½*d.* per box of three.

The Essona Manufacturing Co., Haydon's Bridge, Wimbledon, S.W. 1, produce a series of toilet-preparations, including floral oils, brilliantines, hair and skin creams, shampoo-powders, and allied products that deserve the attention of retailers, whom we recommend to apply to the company for a copy of their illustrated price-list, which shows that besides being nicely packed preparations they are profitable.

"Maltine" with Cod-liver Oil has, in consequence of the greatly increased value of the components, been advanced in price as from April 1 to 2*s.* 9*d.* and 4*s.* 6*d.* per bottle, the minimum retail prices being 2*s.* 6*d.* and 4*s.* 3*d.*, and the wholesale prices 25*s.* and 42*s.* 6*d.* per dozen. The Maltine Manufacturing Co., Ltd., 183 Acton Vale, London, W. 3, state, in their advertisement in this issue, the conditions upon which they replace old stock, and they ask the co-operation of the trade in making the matter known to customers.

Evans Sons Lescher & Webb, Ltd., have purchased the freehold premises Nos. 48, 49, 50, 51, 52, and 53 Bartholomew Close, London, E.C., upon which it is intended to erect warehouse buildings after the war. The present buildings, No. 60 Bartholomew Close, were built in 1883, and were figured and described in the *C. & D.*, July 15, 1884. They replaced the building there to which the firm had removed in 1842 from Cripplegate Buildings, to which John Evans and Joseph Sydney Lescher had removed from 62 Wood Street, Cheapside, shortly after 1828. Mr. John Evans lived in Bartholomew Close before the firm took premises there.

Bishop's Caffeine and Varalettes as produced by Alfred Bishop, Ltd., 48 Spelman Street, London, E. 1, have been advanced in price, and the P.A.T.A. terms are quoted in the manufacturers' advertisement this week. There is no diminution in the profits to wholesalers and retailers, for the caffeine and varalettes, like all their other preparations, are protected at the full face value, ensuring uniform retail prices throughout the country. The two lines that are subject to the present change will bear labels over the makers' name, giving the new price of the package, so as to smooth the way of the retailer so far as possible in making first sales at the higher prices.

Odol.—The *C. & D.*, December 16, 1916, contained a report of the purchase by Sir Richard Cooper, Bart., M.P., of Odol and the stock of the Odol Chemical Works in London. We now learn that Sir Richard's firm, William Cooper & Nephews, are carrying on the new business at their laboratories in Berkhamsted as the Odol Chemical Works, where an up-to-date factory has been equipped for the production and packing of Odol. They have revised the trade terms, and full particulars in regard to them may be obtained on application to the new address. The old prices (1*s.* 6*d.*, 2*s.* 6*d.*, and 4*s.* 6*d.*) are maintained with P.A.T.A. profit, discounts and carriage free on certain orders. We understand that full stocks are available, and since Odol is now a British-owned as well as a British-made preparation, retailers may handle it with confidence both as to its origin and its utility.

Double Eau-de-Cologne Imperial.—Bonser, Hayward & Booth, 17 Laurence Lane, London, E.C., are the manufacturers of this new perfume and toilet-requisite. It is commemorative of August 4, 1914, so the label, which is strikingly original in design, has on it portraits of King George V., the Czar, King Albert of Belgium, President Poincaré, the Emperor of Japan, and King Victor Emmanuel of Italy. The label is printed in colours and gold, and the band across the cork embodies also the colours of the nations who are at war with Germany. On the back of the label is the following statement:

LEST WE FORGET.

We have adopted the Trade Mark "August 4th, 1914," commemoratory of the date on which the British Empire repelled Germany's arrogant claim asserting "necessity knows no law" and that treaties were mere "scraps of paper." Let the world never forget that for more than two and a half years the Germans have exhausted the resources of cruelty, infamy, and crime.

We appeal to the world to destroy this German trade by using a British-made article—its excellence unrivalled.

The eau-de-cologne is to retail at 1*s.* 6*d.*, 2*s.* 9*d.*, 5*s.* 6*d.*, and 11*s.*, these being the protected prices for 2-oz., 4-oz., 8-oz., and 1-pint bottles, the wholesale prices of which are 13*s.* 6*d.*, 24*s.* 6*d.*, 49*s.*, and 98*s.* per dozen. The eau-de-cologne is exquisite in aroma, being stronger and finer than usual, and its attractive get-up in the familiar cologne form, but with a distinctive Allied appearance, should be serviceable in popularising it.

Mouth Troubles in Sheep.

It is of frequent occurrence to see a sheep with a free flow or a dribble of saliva escaping from the mouth. This symptom demands a close inspection of the animal as to the cause. There are possibilities, such as indigestion, worms, thirst, faulty and displaced teeth, wounds, and foreign bodies in the mouth and tongue. If due to indigestion, give the animal an alterative, such as magnesium sulphate with ginger and sodium bicarbonate, repeating daily. If the trouble arises from some other of the causes mentioned, remove the offending substances or treat the wounds. At times a scabby eruption appears around the nose and lips of sheep, which causes great suspicion and anxiety to the flock-master or shepherd if he is not acquainted with the disease. It is purely a benign disease and of little importance, being simply due to the presence of noxious plants in the pasture. The treatment is to remove the flock to other pastures and dress the affected lips and nose with—

Zinci sulphat.,		
Pulv. alum. exsic.	aa.	℥j.
Adipis præp.		℥x.—M.

Another good ointment is—

Acid. boric.	ʒij.
Acid. carbolic.	♏xl.
Adipis	℥ij.—M.

H. K. Mulford, of Philadelphia, who has been experimenting at Millville, N.J., says he finds that cannabis indica can be grown extensively in that section and of a better variety and crop than abroad.

Colonial and Foreign News.

Citric-acid Production has come to a complete standstill in Austria.

Aluminium and Cork have been commandeered by the German Government.

Acetic Acid is scarce in Austria, and orders have been issued for its use medicinally only.

Dr. J. Dekker, the former director of the Colonial Museum in Haarlem, has been appointed scientific adviser of A. Jurgens, margarine-manufacturers, Nimeguen.

Friedrich Bayer, chairman of the board of directors of Friedr. Bayer & Co., Leverkusen, has given a sum of 220,000m. for the Friedrich Bayer funds for the dependants of the persons employed at the works on January 1, 1917. This is to commemorate his forty years' connection with the company.

The Nederlandsche Maatschappy ter Bevordering der Pharmacie had on January 1 721 members, among whom were eighteen honorary members, two corresponding members, fifty-nine general members (in the Dutch East Indies, Surinam, etc.), 607 ordinary, and thirty-eight extraordinary members (widows of pharmacists). The number of the departments, or sections, is sixteen.

Lingner Fund.—According to the will of Lingner, the manufacturer of Odol, a Lingner fund is to be founded with the object of promoting public health. A central institution for nursing babies will be founded in Saxony, also a dental clinic and a training school for disinfecting. A large sum of money from the fund will be used for prize competitions as to the best foods, the most hygienic houses for workmen, etc.

Woman Professor.—Miss Johanna Westerdijk has been appointed Professor of Phytopathology at the Utrecht University. Miss Westerdijk, who thus becomes the first woman professor in Holland, has had a distinguished career, having studied at Amsterdam, Munich, and Zurich. She became director of the Phytopathologic Laboratory Willie Commelin Scholten, founded in Amsterdam in memory of a young student of botany and zoology by his parents. Miss Westerdijk has become one of the most celebrated phytopathologists in the world, and made a special journey to the Dutch East Indies to study plant-diseases. She has charge of the collection of living moulds belonging to the Association Internationale des Botanists.

New Researches on Digitalis have been made in the Pharmacological Instituto of the Vienna University by Professor Dr. E. P. Pick and Dr. R. Wasicky, who have dealt especially with the physical-chemical and biological methods for the standardisation of digitalis. They found the old method of Schmiedeberg most satisfactory for determining the minimum lethal dose of digitalis, and they report that the biological test is done in the following way: The dried leaves are reduced to powder, and 0.5 gram of this is macerated during twenty-four hours, with constant agitation, in 10 c.c. of 25 p.c. alcohol. The centrifuged extract was used for the injection. Special experiments have shown that 25 p.c. alcohol dissolves all digitalis glucosides, including digitoxin. Pure digitoxin (Merck) is not soluble in 25 p.c. alcohol, even when digitalis-extract is added to it; from the drug itself, however, digitoxin is practically entirely extracted by 25 p.c. alcohol. Digitalis-leaves which have been treated with 25 p.c. alcohol in this way do not afterwards yield any digitoxin to 96 p.c. alcohol. The solution prepared in this way is diluted with 25 p.c. alcohol in order to make the less concentrated solutions, alcohol of this concentration showing no effect whatever on frogs in the quantities in which it is used. 0.015 c.c. of each of the solutions was injected per each gram of the frogs' weight under the ordinary precautions. The sensibility of the frogs (*Rana esculenta*) was controlled by means of Bayer's crystallised eymarin. The minimum lethal dose per gram frog are said to be: Digitalis-leaves, 1916 crop, 0.000262 to 0.000285 gram. For the same preparation a minimum lethal dose of 0.0004 gram was found after one hour's observation, the difference being attributed to incomplete absorption. For digitalis-leaves taken from stocks in different Austrian pharmacies the average minimum lethal dose was 0.00045 gram, and for leaves which had been preserved in a very unsuitable way 0.0018 gram was found to be the lethal dose. The minimum lethal dose of leaves of 1908 crop, that preserved in presence of burnt lime, was the same as the 1916 crop. Pick and Wasicky insist most urgently upon making the biological test of digitalis obligatory, and upon bringing into commerce only a "normal" drug of a special activity—say, 0.0003 gram per 1 gram frog weight.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C., March 29, 5.30 p.m.

Business conditions remain much as reported last week, and, so far as regards price fluctuations, there is little of outstanding interest to report. Buying continues on a restricted scale, this being due to the international political situation, which is pregnant with possibilities. In fine chemicals, sodium salicylate is scarce at the moment and rather higher; on the other hand, salicylic acid and salol are lower. Hexamine is irregular but dearer, and acetanilide has a firmer tendency. Methyl salicylate is cheaper. Bismuth salts have been in improved demand at makers' list-prices. Cream of tartar is dearer; citric and tartaric acids are unchanged. Among drugs, balsam tolu is dearer; copaiba is still scarce for B.P.; strophanthus and hydrastis are higher. Lemon, bergamot, and orange oils are quiet, with an easy undertone.

Higher	Firmer	Easier	Lower
Balsam tolu	Acetanilide	Cumin-seed	Acetyl-salicylic acid
Coriander-seed	Fenugreek-seed	Linseed oil	Canary-seed (Morocco)
Cream of tartar	Hexamine	Menthol	Coconut oil
Hydrastis	Hydroquinone	Orange-peel	Lemon oil (c.i.f.)
Shellac		Wood oil (Hankow)	Methyl salicylate
Soda salicylate			Mustard-seed
Strophanthus			Salicylic acid
Turpentine			Salol

A drug auction will be held on Wednesday, April 4.

Cablegrams.

Bergen, March 23.—The Norwegian cod-fishing is improving somewhat: the catch of cod is now 9,700,000, against 19,400,000 at the corresponding date of last year, and the yield of steam refined oil is 15,464 barrels, against 24,238 barrels last year. Market is without quotation for new oil.

Bergen, March 29.—The catch of cod now amounts to 14,300,000, against 26,300,000 at the same date of last year, and the yield of oil is 21,262 barrels, against 32,475 barrels at the same period of 1916. No quotation is available.

New York, March 28.—Business is quiet. Mexican sarsaparilla has advanced to 18c. per lb. Peppermint oil in tins is steady at $2.20. Hydrastis (golden seal) is dearer at $5.25, and cascara sagrada is steady at 11c. Opium has advanced to $30.00 per lb. in second-hands.

Acetanilide is rather firmer, at 3*s*. per lb. net for spot or parcels afloat.

Acetyl-salicylic Acid.—The price for small quantities of B.P. quality is now about 15*s*. per lb., but this price can be modified for quantity. Competition between makers is assuming a new phase of keenness, which may be attributed to the supplies of the acetic anhydride placed at their disposal. Some makers are enabled to cut prices against British, Swiss, and American makes. At the present time very little is being exported from America owing to makers being fully occupied there, and this may be partly due to the fact that the patent for aspirin has just expired in the United States.

Aloes.—The exports from the Union of South Africa during December 1916 amounted to 61,334 lb., valued at

682*l.*, against 121,732 lb., valued at 986*l.*, in December 1915. During the year ended December 31, 1916, the exports were 986,939 lb. (9,305*l.*), against 643,939 lb. (4,779*l.*) in 1915, or 343,000 lb. more.

ALOIN of American make can be had at from 3*s.* 10*d.* to 3*s.* 11*d.* per lb. net on spot.

BALSAM TOLU is dearer at 2*s.* per lb. net on spot.

BISMUTH SALTS have been in more demand at makers' list-prices, which are from 12*s.* to 12*s.* 5*d.* for B.P. carbonate, and 10*s.* 10*d.* to 11*s.* 3*d.* for B.P. subnitrate as to quantity.

BROMIDES.—Prices have been ruling a little firmer for spot parcels during the week, supplies not being too plentiful. Potash is 5*s.* 6*d.* for crystals and 5*s.* for granular in kegs; ammonium is 4*s.* to 4*s.* 3*d.*, and sodium 2*s.* 6*d.*

BUCHU.—The exports from the Union of South Africa during December 1916 amounted to 7,023 lb. (1,117*l.*), against 6,541 lb. (881*l.*) during December 1915. For the year ended December 31, 1916, the shipments were 130,794 lb. (21,685*l.*), against 157,061 lb. (23,767*l.*) in 1915.

CAFFEINE.—Small sales of pure cryst. in dealers' hands have been made at 52*s.* per lb. net, and to arrive 50*s.* net is quoted.

CANARY-SEED.—More business than of late has been done recently, but at slightly lower prices; good quality of Morocco at 81*s.* down to 80*s.* per quarter.

CHLORAL HYDRATE is offered at 7*s.* to 7*s.* 3*d.* per lb. net in bond.

CITRIC ACID is very firm, at 3*s.* 5*d.* per lb.

CLOVES are firm with spot sales of fair Zanzibar at $8\frac{13}{16}$*d.* per lb., closing sellers at $8\frac{7}{8}$*d.*

COCAINE is still scarce, and for forward delivery makers hesitate to offer in view of the difficulty in obtaining solvents and other raw materials. A limited quantity of hydrochloride is offered at 27*s.* to 27*s.* 6*d.* per oz. net.

COCOA-BUTTER.—At auction 680 bales *Fry's* were offered and 150 sold at 1*s.* 7*d.* per lb.

COD-LIVER OIL.—The Norwegian fishing shows a considerable improvement during the past fortnight, but interest in the market here is lacking, with no quotation available for new oil. Finest Norwegian medicinal oil (1916 crop) can be had in small lots at from 390*s.* to 400*s.* per barrel, and non-freezing Newfoundland at 13*s.* 6*d.* per gal. net. It is said that considerable purchases of Newfoundland oil have been made of late in St. John's by British interests.

COPAIBA remains firm and scarce, Maranham in casks as imported offering at 5*s.*, Central American filtered B.P. in cases at 4*s.* 10*d.*, and filtered Para in cases at 3*s.* 6*d.* per lb.

CORIANDER-SEED is held for 80*s.* per cwt. for good Morocco on the spot, but business is slow. The quotation for shipment varies from 67*s.* to 70*s.* per cwt. c.i.f. terms.

CREAM OF TARTAR is 2*s.* 6*d.* per cwt. dearer, at from 200*s.* to 202*s.* 6*d.*

CUMIN-SEED, in the absence of demand, must be quoted easier at 82*s.* per cwt. for good sifted Morocco on the spot.

ERGOT.—Good sound Russian is obtainable on the spot at 1*s.* 10*d.* and wormy at 1*s.* 9*d.*

FENNEL-SEED is offering for shipment from India at 45*s.* per cwt. c.i.f. terms.

FENUGREEK-SEED.—A fair quantity of Morocco has been sold at 38*s.* 6*d.* to 40*s.* per cwt. according to quality, being steady.

FORMALDEHYDE.—Demand is still very active, and small quantities from spot stock are offering at from 105*s.* to 110*s.* per cwt. on the spot, according to quantity.

GENTIAN is quoted at 70*s.* per cwt. ex wharf London to come forward.

HEXAMINE is rather firmer, at from 3*s.* 3*d.* to 3*s.* 6*d.* per lb. Future position depends on that of methyl alcohol in United States, which is difficult to forecast.

HONEY remains firm. Jamaica for March-April shipment is offering at 94*s.* for f.a.q., and pale amber at 95*s.*; Californian is from 96*s.* for light amber to 98*s.* for white; Hawaiian water-white afloat is 96*s.* and white 95*s.*; Cuban for February shipment is 90*s.* for pale amber and 85*s.* for f.a.q. afloat; on the spot 92*s.* is quoted, and San Domingo at 95*s.* per cwt.

HYDRASTIS has been in more inquiry of late: sales have been made at 25*s.* on the spot, but 26*s.* 6*d.* is now asked, and 24*s.* 6*d.* c.i.f.

HYDROQUINONE.—Prices are slightly firmer, at from 11*s.* to 12*s.* per lb. for spot supplies as to holder.

LINSEED is steady, at 115*s.* to 122*s.* 6*d.* per quarter for good quality.

LIQUORICE-ROOT.—Fair quantities have lately arrived from Italy, but they were mostly sold to arrive. Cut decorticated is quoted at 100*s.*, and decorticated sticks at 95*s.* per cwt.

LITHIA CARBONATE.—Spot parcels offer at from 5*s.* 2*d.* to 5*s.* 3*d.* per lb. net.

MENTHOL.—Flat and slightly easier, from 12*s.* 3*d.* to 12*s.* 6*d.* per lb. on the spot. The exports from Japan during December amounted to 25,879 kin (November, 23,385 kin), valued at 176,644 yen. During the twelve months ended December 31 the exports for the past three years have been as follows:

	1914	1915	1916
Kin	269,266	325,464	386,458
Yen	1,816,096	1,805,114	2,410,628

The destinations were as follows:

	1914 Kin	1915 Kin	1916 Kin
British India	13,906	26,177	24,707
Great Britain	42,720	59,246	143,148
France	22,329	41,774	69,184
Germany	82,600	—	—
United States	89,496	172,590	137,228
Other countries ...	18,215	25,677	12,191
	269,266	325,464	386,458

METHYL SALICYLATE is offered at 5*s.* per lb. net spot, and at 4*s.* 10*d.* net to arrive.

METHYL SULPHONAL is offered at 56*s.* 6*d.* per lb.

METHYLENE BLUE.—Medicinal quality is obtainable at from 27*s.* 6*d.* to 30*s.* per lb.

MILK-SUGAR.—New Zealand, Dutch, and American all offer at 185*s.* per cwt. on the spot.

MUSTARD-SEED.—Good English yellow is cheaper at 46*s.* per cwt.

OILS (FIXED).—*Linseed* is dull and easier, closing at 50*s.* 9*d.* per cwt. in pipes landed and 51*s.* 8*d.* landed in barrels. *Cotton-seed* is unchanged at 54*s.* for crude in pipes, and pale refined in pipes on spot is 55*s.*; for sweet refined in barrels from 62*s.* to 64*s.* is quoted. *Rape* is unchanged, with ordinary brown naked on spot offering at 64*s.* British refined in barrels is 69*s.* to 70*s.* *Coconut* is steady at 70*s.* for Ceylon in hogsheads on spot and 67*s.* in pipes. Cochin on spot is 69*s.* to 73*s.*, and shipment 67*s.* per cwt. c.i.f. London pressed is 53*s.* to 54*s.*, as to position. Hankow *Wood* oil is easier at 86*s.* spot, and to arrive 84*s.* c.i.f. is quoted. *Soya* is steady; Hull (spot) crushed is 52*s.* 6*d.*, and in London January-February shipment is 53*s.* c.i.f. Lagos *Palm* is firm at 49*s.* on spot, and 45*s.* 6*d.* ex quay Liverpool. Japanese *Fish* is firm at 38*s.* 6*d.* c.i.f. afloat.

ORANGE-PEEL.—Good pale thin so-called Maltese strip is quoted at 2*s.* 6*d.* per lb., being slightly easier.

PARAFORMALDEHYDE is quoted at from 3*s.* 6*d.* to 3*s.* 9*d.* per lb.

PHENACETIN.—There are still spot sellers at about 77*s.* 6*d.* per lb., but, with a reduction in United States prices, tendency is rather easier. The small production in this country is practically all absorbed by the Government.

PHENAZONE.—Second-hand parcels are occasionally offered at from 52*s.* 6*d.* to 55*s.* per lb., but prices of most of these synthetic products have reached their high-water mark, and a gradual declining tendency may set in.

PHENOLPHTHALEIN is quoted at from 87*s.* 6*d.* to 90*s.* per lb. net on spot.

PYROGALLIC ACID.—Crystals can be had at 15*s.* 6*d.* per lb., and re-sublimed at 17*s.*

QUICKSILVER.—With supplies under Government control, purchases can only be made with a permit, and price is then a matter of negotiation.

QUININE.—It is reported that a considerable quantity was lost in the North Sea, and the replacement of it has led to increased activity in the second-hand market this week. From 2*s.* $8\frac{1}{2}$*d.* to 2*s.* 9*d.* per oz. are current values for Dutch make.

SACCHARIN.—Small lots offer from dealers at 250*s.* to 260*s.* per lb., duty paid.

SALICYLATES.—Salicylic acid is rather lower, U.S.P. quality offering at 3*s.* 9*d.* and English B.P. at from 4*s.* to 4*s.* 3*d.* The makers of salicylic acid in this country are increasing their output, and competition in consequence is keener. It is believed, however, there is little room for a further decline in salicylates. Salicylate of soda is dearer in some quarters, but is offered at a wide range, American powder being 4*s.* 10*d.* to 5*s.* for parcels afloat, and actual spot being 5*s.* 6*d.* to 6*s.* and crystals 6*s.* 6*d.*

SALOL.—With lower prices in United States, spot holders are now asking 9*s.* to 9*s.* 3*d.* per lb. in cwt. lots; arrival parcels can be had at 7*s.* net c.i.f.

SANDALWOOD OIL has been in good demand, and prices are firm at from 49*s.* to 49*s.* 6*d.* per lb. for genuine English drawn from E.I. wood, as to quantity. We notice the arrival of 2,625*l.* worth from India. The price in United States range from $12.50 to $13.00 per lb.

SARSAPARILLA.—Sales of Lima-Jamaica have been made at 3*s.* per lb; Mexican is offered at 1*s.* 6*d.* net.

SENEGA is firm at 3*s.* 3*d.* per lb. net on spot.

SHELLAC.—Following on a sharp advance in the Calcutta rupee price towards the close of last week, the spot market

jumped 6*s.* to 7*s.* per cwt. on Friday last, usual TN standard Orange quality closing at about 204*s.*, and on Monday a further advance to 207*s.* took place. Since then the market has been quiet, with moderate sales at from 203*s.* to 205*s.*; the value of fine Orange is 270*s.*, and AC Garnet 210*s.* Futures are also dearer.

Soda Nitrate is firm at 23*l.* per ton for refined on the spot, and in Liverpool 23*s.* 6*d.* net is quoted.

Squill.—For good white 65*s.* per cwt. is quoted on the spot.

Strophanthus.—A fair quantity of *Kombé* has been sold at higher prices.

Sulphonal is offered at from 37*s.* to 38*s.* per lb.

Sulphur.—Recovered rock sulphur, which can be used for a variety of purposes, is attracting more attention, and is obtainable below the parity of Sicilian sulphur—viz., at about 12*l.* per ton.

Tartaric Acid remains very firm at 2*s.* 10*d.* per lb. on the spot.

Turpentine closes about 1*s.* per cwt. higher on the week, America offering at 53*s.* 3*d.* on the spot.

Vanillin is quoted at from 26*s.* 6*d.* to 27*s.* per lb. in cwt. lots.

German Drug-markets.

The following notes refer to the Berlin market under date of March 3, 7, and 14, 1917:

Agar-agar in small lots is still offered at from m.42 to m.43 per kilo.; imports have been banned.

Alum.—Makers advanced the prices by m.4 per 100 kilos. for small crystals, and by m.8 for large. Contracts cannot be accepted. Small crystals are m.50 per 100 kilos., large crystals m.57, c.p. crystals m.60, and powdered m.68.

Aniseed.—Spanish and Russian are unobtainable except in retail lots at from m.560 to m.565 per 100 kilos.

Borax and Boric Acid are no longer to be had in "free" trade in quantity; small lots of boric acid are offered occasionally from m.14.50 to m.15.50 per kilo.

Calcium Carbonate.—Prices have advanced considerably of late, from m.50 to m.55 per 100 kilos. being quoted.

Camphor.— *Japanese* natural may only be used for the preparation of medicines for internal use, according to a decree of the German Diet of February 16, 1917. An exception is made for use on behalf of the army and navy.

Carbolic Acid.—Crude is no longer to be had in "free" trade in consequence of the commandeering of tar-oil.

Carragheen is very scarce. The small lots offered now and then meet with a ready sale.

Cassia-bark has not been imported for several months; only very small quantities are offered now, and meet with a ready sale. Selected bundles offer at m.1,825 to m.1,850, first Padang at from m.1,810 to m.1,825, and second at from m.1,750 to m.1,770.

Cassia Fistula.—The remaining stocks have largely diminished, the demand being active. From many sides the article is already reported to be entirely wanting. First selected is m.300 to m.310 per 100 kilos.; pulp is quoted at from m.500 to m.525 per 100 kilos.

advanced to from m.17.50 to m.17.75 per kilo.

Cevadilla.—The demand is increasing, and prices have advanced to from m.775 to m.800 per 100 kilos.

Cinnamon (Ceylon).—During the last four or six weeks the price has not further advanced; in fact, prices are a little cheaper. Only a few qualities are still to be had—viz., No. 0, m.21 to m.21.25; No. 1, m.20.50 to m.20.75; and No. 2, m.20 to m.20.25 per kilo. Chips for grinding are from m.17.50 to m.17.75 per kilo.

Citric and Tartaric Acids have been in active demand at very high prices. In the German market only small quantities are offered at from m.30 to m.35 per kilo. As far as tartaric acid is to be had, crystals are from m.28 to m.30 per kilo.

Cloves.—Zanzibar are easier, as the demand has fallen off considerably. First Zanzibar cloves for prompt delivery are quoted at from m.15 to m.15.50 per kilo., but stocks are trifling.

Oils (Essential).—Genuine *Eucalyptus* oil is unobtainable. Only now and then very small quantities are offered at from m.22 to m.23 per kilo. A synthetic surrogate is offered at from m.8 to m.9 per kilo. The demand for rectified *Fennel oil* has been very active, and the stocks appear to have greatly diminished. New imports from Galicia cannot be expected for several months. Prices vary from m.26 to m.27 per kilo. The stocks of *Lavender* oil are very small, and prices have advanced considerably, as the chief source of production is the Austro-Italian theatre of war. Extra fine oil with 30 per cent. of linalyl acetate is from m.45 to m.46.

Potash Salts.—The total value of the potash salts sold by the Kali-Syndicate in 1916 amounted to about m.155,000,000.

Potash Sulphide is very scarce in consequence of commandeering of raw material. The prices have advanced considerably to from m.150 to m.160 per 100 kilos.

Potash Ferrocyanide.—Crude is only to be had from a few makers in very small lots; commercial is from m.205 to m.210 per 100 kilos., according to quantity.

Quillaia is very firm, as the German Government has refused new imports. Prices have consequently advanced to m.550 to m.555 per 100 kilos. for cut, and powdered is in active demand for the manufacture of war-soap at from m.750 to m.775.

Thymol is still obtainable in small quantities at m.80 per kilo.

Waxes.—*Bees'* was cheaper at the beginning of January, but has again advanced. Trade in inland beeswax remains "free," but beeswax that is imported from foreign countries must be sent to the War Committee. Guaranteed pure bees', yellow, is quoted at from m.15 to m.16 per kilo.; guaranteed pure white bleached at from m.10 to m.17. Carnauba and Japanese have entirely disappeared from the market in consequence of commandeering.

Arrivals of Chemicals, Drugs, etc.

The following is a selection of arrivals in the Port of London during the period March 21 to 26 inclusive. The countries specified are those from which the goods are consigned.

Acetanilide (U.S.) 5 kgs.
Acetic acid (Swz.) 20 cbys., 10 pkgs.
Acetyl-sal. acid (Swz.) 30 cs.
Albumen, egg (Ch.) 8,348*l.*; egg-yolk (Jp.) 518*l.*, (Ch.) 1,040*l.*
Aloes (Cape) 25 cs.
Anise oil, star (H. Kong) 200 cs.
Antim. ore (Rhodesia) 9 tons
Antitoxin, tet. (U.S.) 32 bxs.
Argol (Sp.) 1,098 bgs.
Barbitone (Swz.) 10 cs.
Bismuth ore (Fr.) 10*l.*, (N.S.W.) 615*l.*
Cachou laval (Fr.) 20 cks.
Calc. carbide, 21,960 cwt.
Calc. cyanide (Nor.) 50 tons
Camphor (Jp.) 130 cs., (Fr.) 45 cs.
Camphor oil (Jp.) 354*l.*
Carbon black (U.S.) 620 cs.
Cerium nitrate (U.S.) 47*l.*
Chamomiles (Sp.) 3 bls.
Chemical products, unrated (Swz.) 4 cks., (Fr.) 3 cs., 81*l.*
Cinchona (Holl.) 119 bgs. 15 bls.
Cinnamon oil (H. Kong) 10 cs.
Citric acid (It.) 328 pkgs. 60 kgs. 4 cks.
Citronellol (Fr.) 1 cs.
Cocaine (Fr.) 1 pkg.
Copper phosphide (Fr.) 80 cs.
Copra (Port. E. Af.) 3,320 cwt.
Cream of tartar (It.) 28 pkgs.
Creosote, beech (U.S.) 2 cs.
Dental goods (Swz.) 220*l.*, (U.S.) 48*l.*
Drugs, unrated (Fr.) 99*l.*
Fennel-seed (It.) 120 bls.
Gelatin (Fr.) 325*l.*
Gentian pow. (Fr.) 20 bgs.
Glycerin, dist. (U.S.) 542*l.*, (Holl.) 550*l.*
Ground-nuts (Port E. Af.) 1,805 cwt., (B.I.) 6,660 cwt., (Ch.) 2,000 cwt.
Guaiacol carb. (Fr.) 5 cs.
Gums: damar (Jv.) 61 cwt.; kauri (N.Z.) 828 cwt.; tragacanth (Pers.) 69 cwt.; unrated (Egy.) 255 cwt.
Henna-leaves (Fr.) 22 bls.
Heliotropin (U.S.) 2 cs.
Herbs, dried (Fr.) 20 bxs. 72 bls.
Honey (Holl.) 1,698 cwt., (Arg. Rep.) 80 cwt.
Indigo (B.I.) 158 chts. 62 cs.
Insect-powder (Jp.) 25 bls.
Kola (B.W.I.) 8 bgs.
Lime-juice (B.W.I.) 13,300 gals.
Limestone phosphate (U.S.) 179 cs.
Liquorice-juice (It.) 115 cs.
Liquorice-powder (Fr.) 20 bgs.
Liquorice-root (It.) 131 bls. 50 bgs., (Sp.) 20 bgs.; shavings 99 bls.
Lycopodium (Russ.) 27 pkgs.
Male-fern ext. (Swz.) 2 cs.
Manna (It.) 18 cs.
Menthol (Jp.) 25 cs.
Milk-sugar (Holl.) 50 cs.
Myrrh (B.I.) 14 cwt.
Oils, essential (Fr.) 14 cs., (It.) 100 cs. 4 × ½ cs. 92 pkgs., (Holl.) 5 cs., (U.S.) 11 cs., (Brit. Ind.) 14 cs., (Jp.) 25 cs., (Jv.) 4 cks., (B.W.I.) 10 drms.; *synthetic* (U.S.) 2 dms., (Fr.) 3 cs.
Oils, fixed: arachis (Jp.) 1,500 cs., (Ch.) 915 brls., (Holl.) 100 brls., (B.I.) 113 brls., (H. Kong) 325 brls.; castor (B.I.) 1,021 brls. 125 cks., (Fr.) 142 cs.; cotton (U.S.) 1,000 brls.; olive ref. (Sp.) 80 tuns, (Fr.) 1,331 gals. 2 tuns, (It.) 362 gals.; peach-kernel (Fr.) 42 cs.; sulphur olive, unref. (It.) 16 tuns; wood (H. Kong) 6,850*l.*
Opium (B.I.) 100 cs.
Orange-peel (Trip.) 4 cs., (It.) 35 pkgs. 10 cs.
Orchella-weed (Port.) 200 bgs.
Orris (It.) 236 bgs.
Paraformaldehyde (U.S.) 20 cs.
Pepsin (U.S.) 10 pkgs.
Perfumery, unrated (Fr.) 412*l.*, (Holl.) 26*l.*, (Swz.) 281*l.*; toilet-powder (Fr.) 853*l.*
Pot. bromide (U.S.) 20 cs.
Pyrogall. acid (Swz.) 4 pkgs.
Platinum (N.S.W.) 29*l.*
Quicksilver (U.S.) 15,000 lb.
Quinine (Holl.) 16,760 oz.
Rhubarb (Ch.) 20 cs.
Rosin (Fr.) 650 brls.
Safrol (U.S.) 7 cs.
Saltpetre (B.I.) 5,610 cwt.
Sandalwood (B.I.) 67 brls.
Sandalwood oil (B.I.) 2,625*l.*
Scammony-root (U.S.) 100 bgs.
Seeds: apricot-kern. (Jv.) 204 cwt.; celery (Fr.) 20 bgs.; coriander (Mor.) 33; cumin (Mor.) 148 bgs.; dari (Egy.) 840 bgs.; linseed (B.I.) 2,130 bgs., (Pers.) 65 bgs.; mustard (It.) 339 bgs.; rape 5,547 bgs.; sesame 6,200 bgs.; simsim (P.E. Af.) 6,027 bgs.; teazle (Fr.) 52 bls.
Senna (Cey.) 60 bls.
Shellac (B.I.) 953 cwt.
Soap, household (Fr.) 595*l.*; toilet (Fr.) 87*l.*; powder (Fr.) 60*l.*
Soda benzoate (Swz.) 11 cwt., (It.) 20 cwt.
Soda bisulphite (U.S.) 40 cks.
Spices: cinnamon (Cey.) 50 bls.; cloves (Zan.) 2,400 bls.; ginger (B.I.) 178 bgs.; nutmegs (S.S.) 100 cs.; pepper (S.S.) 485 bgs., (Uganda) 45; pimento (Jam.) 1,229 bgs.
Squill (It.) 15 bgs.
Starches (U.S.) 1,081 cwt.; rice (Jp.) 200 cwt.; maize (Can.) 895 cwt.
Stavesacre (It.) 36 bls.
Sumach (It.) 250 bgs.
Tartaric acid (It.) 48 cks. 60 bgs. 6 brls. 10 kgs.
Theobromine (Holl.) 4 cs.
Thorium nit. (U.S.) 4,604*l.*
Urodonal (Fr.) 21 cs.
Vanilla (Fr.) 4 cs.
Wax, bees' (It.) 55 pkgs., (Fr.) 418 bgs. 2 cs. 105 pkgs., (Mor.) 16 bgs., (Uganda) 7 bgs., (Natal) 6 pkgs., (Cape) 6 cs., (B.I.) 27 cs. 58 bgs.
Wax, paraffin (U.S.) 10,071 cwt.
Wax, veget. (Jp.) 100 cs.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Sulphites in Glucose and Sugar.

Sir,—With respect to the note of Mr. W. B. Cowie, F.C.S., presented before the North British Branch of the Pharmaceutical Society held in Edinburgh on March 7, we may say that in general Mr. Cowie's information was correct—namely, that most of the makes of liquid glucose do contain SO_2—and it would be equally true to say that they contain other impurities, all more or less deleterious and all forming more or less objections in the application of liquid glucose on a large scale for domestic uses and for pharmaceutical preparations. It is precisely for this reason that we have developed a special process whereby we make our Britannia corn syrup, which is a very pure form of liquid glucose. No bleaching chemicals of any kind are used, and it is absolutely SO_2 free. Not only so, but all the raw materials and processes of manufacture are under scientific control. The finished products are constantly analysed and checked by our finished-materials chemists, and in addition we retain the services of a high-class analyst, who takes samples indiscriminately at any time and reports independently as to purity. No artificial dyes or "blueing" are applied to Britannia corn syrup in order to give an appearance of purity, and it is in every way the purest form of liquid glucose. We have produced this very pure and excellent form of liquid glucose largely at the request of the Board of Agriculture and Local Government Board, who, on the outbreak of war, realised that ordinary forms of sugar, such as beet and cane, would inevitably be short and difficult to obtain, and that the fruit-crop of the United Kingdom would be largely lost unless some wholesome sugar were available for its preservation. We realised that a much purer form than that usually supplied was essential. That our efforts have been successful is evidenced best by the fact that we are supplying our Britannia corn syrup not only for fruit-preservation, jam and marmalade making, but for every household use for which sugar was previously supplied, used, and thought to be essential. We also supply large manufacturing chemists, invalid-food makers, milk-food manufacturers, doctors, and hospitals, and the great general public with our special Britannia corn syrup, and experience difficulty in keeping our customers supplied whilst maintaining the high standard of purity.

Yours faithfully,
For the Manbre Saccharine Co., Ltd.,
Henry B. Lake,
Hammersmith, W. Technical Manager.

Sir,—A report of Mr. Cowie's paper on "The Risks in using Commercial Glucose in Pharmaceutical Preparations," which appeared in a recent issue (*C. & D.*, March 17, p. 44), has tempted me to look up some notes on sulphites which may be of interest in this connection. There are two kinds of commercial liquid glucose, known respectively as "Crystal" and "Neutral," both of which (according to Garton, Sons & Co., and in spite of what Mr. Cowie says) are equally obtainable (or perhaps at the present time equally unobtainable). "Crystal" glucose is the "neutral" variety bleached with sulphites; it is "water white," and contains up to 7 gr. of SO_2 per lb. The "Neutral" is of a pale-lemon colour, and is usually free from traces of SO_2. A sample examined to-day was found in such a condition. On this account its flavour is superior to the "Crystal" variety. Glucose now is dearer, weight for weight, than sugar, and of course very much more so when allowance is made for the water it contains; it approximately possesses, as Mr. Boa said, a quarter the sweetness of refined sugar, and this is not such a pleasant sweetness. It is therefore not so good a preservative. Consequently, when used with sugar to make a syrup of the same gravity as B.P. syrup, it would be as well to make smaller quantities than customary. When a syrup, free from invert sugar, is required of greater density than B.P. syrup, glucose must be used, or otherwise there would be sugar crystallisation. Its proper use is thus indicated. The following are the results of some analyses of "Crystal" glucose:

Dextrose	34 to 48 per cent.
Dextrine	30 to 45 per cent.
SO_2 (free and combined) ...	0.03 to 0.10 per cent.
Moisture	14 to 20 per cent.

The duty on glucose is 6*s.* 4½*d.* per cwt., an equivalent of 45½ per cent. sugar, which is far above its relative value as a sweetening agent. A simpler test for the presence of sulphites in these substances than the one given by Mr. Cowie, I suggest, may be made by adding 10 c.c. concentrated hydrochloric acid to 50 c.c. of a 50-per-cent. aqueous solution of the substances in a flask, the neck of which is then covered with a piece of white filter-paper moistened with a saturated aqueous solution of potassium iodate containing a little starch paste. On gently heating this, the paper cover becomes more or less blue, in proportion to the quantity of SO_2 evolved. The temperature should be slowly raised and not exceed 60° C. Sulphites in refined sugars are frequently the result probably of a bleaching process. Some years ago I found $\frac{1}{25}$ gr. SO_2 per lb. in samples of German granulated—a small quantity; yet a consignment of marmalade made with this sugar for South African troops at the time of the Boer War was "held up" for several weeks by a Government Department, it being at first thought that a sulphite had been added as a preservative. Mr. Cowie, I think, was wrong in assuming that the SO_2 in Mr. Nesbit's cane-sugar was due to ultramarine, for this colour contains a sulphide, and not a sulphite.

Yours truly,
H. H. Robins
Dockhead, S.E. (Chas. Southwell & Co., Ltd.).

Venereal Diseases Bill.

Ph.C. (249/66) asked us for a draft-letter to send to his M.P. regarding this Bill, and we sent him the subjoined. He has thanked us, and says we would be doing a service to our readers by putting it in this issue. This we do, and suggest that subscribers should have their letters typewritten if possible:

Dear Sir,—I write to call your attention to the Venereal Diseases Bil introduced by the President of the Local Government Board in the House of Lords, and read a second time on March 2, but now before the House of Commons. Although the primary object of the Bill is to counteract the treatment of these diseases by quacks, the Bill is drafted in such a manner as to compel people who want treatment to get it only from registered medical practitioners, while it also prevents registered chemists and druggists from selling any drug or medicinal or other preparation as a remedy for venereal disease, thus throwing upon chemists the responsibility of ascertaining whether or not certain commonly used artic es are required for venereal disease. I may mention as examples alum, borax, Epsom salt, and bicarbonate of potash. I may remind you that the Royal Commission on Venereal Diseases, reporting on the subject in 1916, stated:

"We should have advocated legal provisions, making the treatment of venereal diseases by unqualified persons a penal offence, but we recognise the practical difficulties in securing the effective operation of such law in present circumstances."

This decision of the Royal Commission has been utterly ignored by the framers of the Venereal Diseases Bill, who have been actuated mainly by certain extreme persons acting for the medical profession. They have utterly ignored the fact that a very large number of general medical practitioners have discouraged or declined patients of this kind, with the result that suffering persons have been compelled to seek guidance wherever they could get it. I trust, therefore, that you will endeavour when the Bill is taken in the House of Commons to get it referred to a Committee which will take the measure into consideration, especially with the view of protecting the rights of chemists and druggists as well as public interests and requirements. Yours faithfully,

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

"California Bees."

A. E. W. (243/36) asks if we can say what is intended by the above. He adds: "They are used for making a cough-mixture."

Spanish Earth.

A correspondent (252/9) writes that Spanish earth, used for clearing potable spirits (see *C. & D.*, March 17, p. 52), is the well-known Spanish clay of which in peace-time several hundred tons is imported annually from Spain, and largely used for clearing wines. It is now difficult to get, but wholesale chemists who supply brewers' requisites would probably sell a few pounds.

A Ruby Lamp for Photographic Use.

Mr. D. S. Bennet, Cahirciveen, writes: "A couple of weeks ago I noticed a correspondent inquiring about colouring of electric lamps a ruby colour for photographic use. I was in the same difficulty, and overcame it by adjusting a small folding calico dark-room lamp, costing 6*d.*, to the electric bulb by removing the inside strip of metal, slipping the top piece over the bulb, and keeping the whole in position with two large I.R. bands, and it answers admirably."

This Happened in Yorkshire.

Enter a working man who presents prescription form B, mist. sod. sal. ℥xij. "Can I get this made up?"

"Yes, but I want the other half of the prescription." "Oh, that! I thought it was a new kind of plaster, and I put it on my back, but it came off and did me no good." He searched through his pockets and produced form A, somewhat tawdry and snipped round the edges. Eventually he departed satisfied, but murmuring something about "changes due to the war."—*H. J.* (235/40).

Legal Queries.

Poster (250/74).—You cannot now print a poster on paper for exhibition in your window on bargain-day; fabric is also barred, but you can use a wooden board, and print on it.

O. N. (252/10).—The Registrar of Business Names is appointed for that purpose, and not to answer questions in regard to the Act, although he generally does so on personal application. Section 18 of the Act requires your true name to be placed on business-letters, as was explained in the *C. & D.*, February 10, p. 44, and in practically every issue since.

Otto (251/74) has, as a manufacturing chemist and essence-distiller, sent by post price-lists and circulars to mineral-water manufacturers. He wants to know if these are now prohibited. [Price-lists by wholesalers to retailers, or others on a similar basis, are permitted. We observe that the Board of Trade has authorised the Paper Commission to extend by general licence from March 24 to April 21, the time allowed for the completion of posters and the despatch of catalogues, price-lists, and circulars when the production of such posters, catalogues, price-lists, and circulars was actually begun before March 3. No application to the Paper Commission for a licence is necessary in those cases.]

Miscellaneous Inquiries.

A. W. P. (239/10).—Aniline Colours for Beverages.—The following are employed: Cherry-red (sodium salt of tetra-iod-fluoresceine); crocein-scarlet (sodium benzene-naphthol-sulphonate); magenta or fuchsine (hydrochloride or acetate of rosaniline); saffron yellow (sodium salt of amido-azo-benzene sulphonate); primrose-yellow (auramine); citron-yellow (sodium salt of xylene-sulphonic-acid-azo-β-naphthol). These are used in solution or paste form. For example, *raspberry colouring* is a solution of crocein-scarlet 1 oz. in boiling water 1 pint. The paste form is made with dextrin, some salicylic acid being added as a preservative.

L. W. M. (247/60).—Chloramine Wound-paste.—We think you will find tragacanth paste the best non-greasy basis for a chloramine wound-dressing. Agar-agar is also used. The other non-greasy bases are casein and sodium stearate, such as are used in preparing skin-creams, but these are open to objections for the purpose in view. Tragacanth paste is used as a lubricant in surgery and generally contains some glycerin, which, however, you may prefer to dispense with. We suggest that you try 3 per cent. of powdered tragacanth, moisten it with alcohol as in making muc. tragacanth., and then add the water. The paste can be sterilised if thought necessary, which would also dissipate the alcohol, if this is an objectionable ingredient.

Bang (209/7).—(1) Black Oil is a veterinary preparation used as a stimulant and caustic application for wounds. The formula is as follows:

Turpentine	1½ oz.
Sulphuric acid	2 dr.
Linseed oil	10 oz.

Add the acid very carefully and slowly to the turpentine in a jar, and when the chemical reaction has ceased add the linseed oil. The application is generally made with a feather.

(2) Liquid glucose is more convenient than the solid form for use in making a cough-mixture, but either can be employed. (3) The vagaries of the quinine-solutions to which you refer are probably due to the cold weather, the salts being less freely soluble at the lower temperatures which have prevailed since the beginning of the year. (4) We have no formulæ for the preparation of peptonised cocoa and coffee, but possibly you have in mind the addition of medicinal peptone to these beverages, or a paste form in which the condensed milk has been peptonised by treatment with pepsin. Experiments on these lines may be carried out.

G. E. H. (246/69).—Senna-pods that have turned musty through becoming damp may be improved somewhat by careful heating in an oven that is not too hot. The leaves should be spread out in a thin layer and stirred up every half-hour. You do not tell us what weight of leaves has to be treated, and you must yourself judge whether or not it will pay to carry out the treatment.

B. P. C. (250/65).—You are wrong. The quantities are given in metric and Imperial terms, but the B.P. in metric terms only. In consequence we gave in the *C. & D. Diary*, 1915, p. 214, the formulæ in Imperial terms.

Ajax (241/1).—Preserving Rabbit-skins.—See *C. & D.*, November 4, p. 52.

M. M. Co. (Calcutta) (244/1).—Disinfecting-fluids.—The method of mixing the disinfecting-fluids, the formulæ for which you submit, is to boil together the rosin and caustic-soda solution until combination has taken place, and then to stir in the tar oil, etc. We do not think the formula will produce a fluid which will form a white liquid when added to water, but this result can be obtained by adding some vegetable oil to the liquid in the course of manufacture.

F. P. (240/5).—Chavasse's "Advice to a Wife" (Churchill, 2*s.* 6*d.*) is a suitable book to recommend to your customer. As a household guide to diseases and remedies the following are good: Grimshaw's "The People's Medical Guide" (Churchill, 8*s.* 6*d.*); Walter's "Home Doctor" (Sonnenschein, 2*s.* 6*d.*); Kesteven's "Home Doctoring" (Warne, 1*s.*).

F. S. (243/55).—Henna Shampoo-powder.—See *C. & D.*, May 6, 1916, p. 52. For the method of using henna see *C. & D.*, February 24, 1917, p. 62.

O. F. H. (174/20).—To Prevent Silver Tarnishing in sea air it is suggested that the polished articles be dipped in a dilute collodion. This when dry leaves a thin coating on the silver which effectually prevents the sea air discolouring the metal.

Snow (249/65).—Glycerin-free Skin-cream.—See *The Chemist and Druggist Diary*, 1917, p. 369.

W. J. (245/69).—Food-values.—A good deal of information on food-values is given in Tibbles's "Foods: Their Origin, Composition, and Manufacture" (Baillière, 8*s.*), but it does not answer your description of "small and concise." You will find, however, very satisfactory McKillop's "Food Values: What they Are and How to Calculate them." This is published by Routledge at 1*s.*

C. S. (249/24).—Sal-volatile Substitutes.—We do not recollect the formula to which you refer, but you can make such a preparation without spirit by using the ingredients given in the British Pharmacopœia, the lemon oil being preferably the terpeneless variety. This "liquor ammon. arom." requires shaking before measuring out the dose.

W. S. (244/49).—Hewlett's "Manual of Bacteriology" (Churchill, 12*s.*) is one which will best suit your purpose.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1867.

The Pharmacy Bill and Two Societies.

On Tuesday, February 19, a number of gentlemen connected with the trade of Chemists and Druggists assembled at the rooms of the United Society of Chemists and Druggists, Great Ormond Street, and afterwards waited upon the Council of the Pharmaceutical Society of Great Britain at Bloomsbury Square, with the view of extending the Pharmacy Act on such a basis as to promote general agreement. Five pages of The Chemist and Druggist contained a report of the conference, at which the speakers were Mr. Matthews, F.C.S. (President of the United Society), Mr. Buott, Mr. Betty, Mr. Anderson, Mr. Salter, Mr. Pass, Mr. Mercer, Mr. Sandford (President of the Pharmaceutical Society), Mr. Toogood (Hull), Mr. Harwood (Bolton), Mr. Blain (Bolton), Mr. Hughes (Oxford), Mr. Huddlestone (Sheffield), Mr. Savage, and Mr. Hills. Mr. Sandford dismissed the deputation by expressing the hope that he should see them at the Society's dinner to-morrow evening. After this another deputation, consisting of chemists and druggists unrepresented by any organised Society, met the Council of the Pharmaceutical Society. It was introduced by Mr. Wade, and the speakers were Mr. Sandford, Mr. D'Aubney, Mr. Potter, Mr. Squire, Mr. Cannon, Mr. Savage, Mr. Carteighe, and Mr. Wade, who thanked the Council for receiving them.

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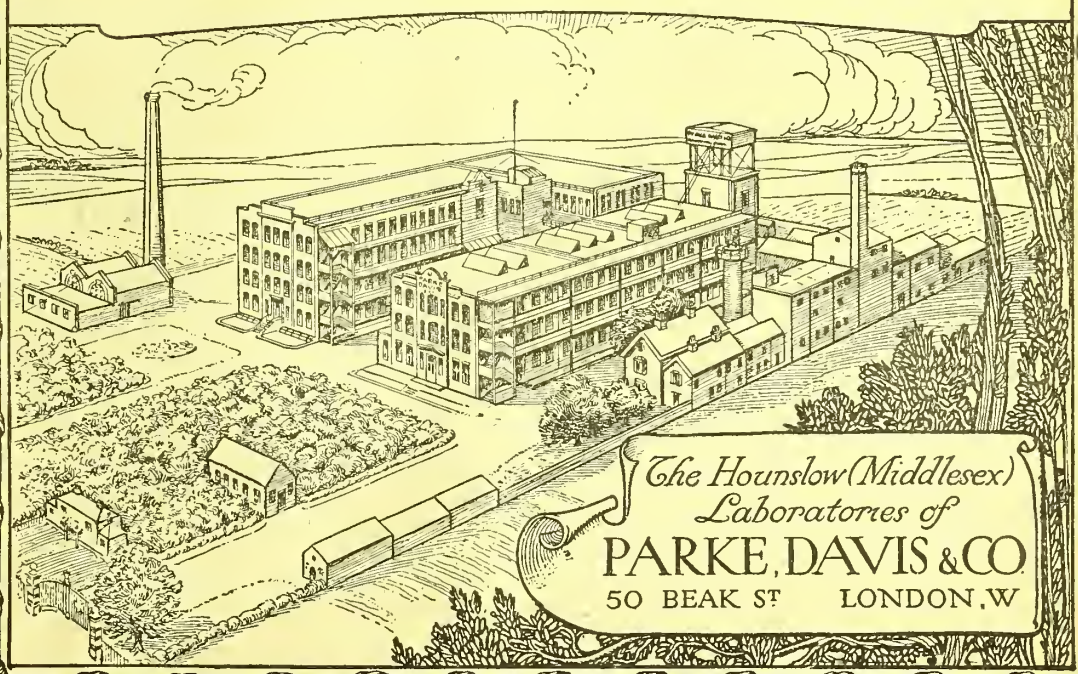

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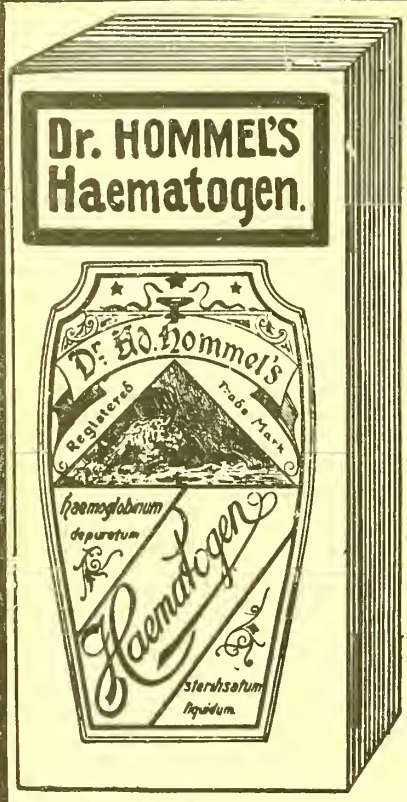

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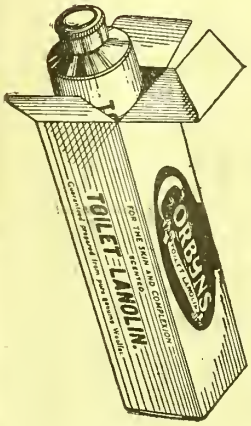

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Fuller's Earth, fine powder or lump, 5 cwt. @ 8/3 cwt.; 1 cwt. @ 9/6.

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Gamboge, English Ground, 7 lbs. @ 5/6 lb.; 1 lb. @ lb.
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* ,, Acid. Carbolic, P.B., 6 lbs. @ 1/10 lb.
* ,, Acid. Tannic, P.B., 6 lbs. @ 2/6 lb.
,, Belladon. B.P.C., 6 lbs. @ 6/6 lb.; 1 lb. @ 7/- lb.
*Glycerin. Boracis, P.B., 6 lbs. @ 1/8 lb.
* ,, Pepsin. Acid, P.B., 1 lb. @ 3/6 lb.
* ,, Plumbi Subacet., P.B., 6 lbs. @ 2/6 lb.
Guaiacol Carb., 1 lb. @ lb.
Guaiacol, pure, 1 lb. @ lb.
Gum Acaciæ sorts, 3 cwt. @ 75/- cwt.; 1 cwt. @ 80/- cwt.; 7 lbs. @ 10½d. lb.; English Ground Powder, No. 1, 1 cwt. @ 140/- cwt.; 7 lbs. @ 1/6 lb.; No. 2, 1 cwt. @ cwt.; 7 lbs. @ 1/2 lb.
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Gum Catechu Nig., English Ground, 1 cwt. @ 105/- cwt.; 14 lbs. @ 1/- lb.
Gum Guaiaci, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.
Gum Juniper, 14 lbs. @ 1/- lb.
Gum Thus Elect., 2½ cwt. @ 48/- cwt.; 28 lbs. @ 52/- cwt.
Gum Tragac. Elect., English Ground, 7 lbs. @ 10/- lb.; 1 lb. @ 11/- lb.

*Heading (Frothing Ess.), 5 lbs. @ 1/9 lb.
Heliotropine, 1 lb. @ 30/- lb.
Hellebore, White, Powder (Foreign Ground), 1 cwt. @ 52/6 cwt.
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Honey, Pale Set, 28 lbs. @ 1/1 lb.
Hydrargyrum, P.B., 10 lbs. @ 6/10 lb.; 1 lb. @ 7/- lb.; Ammon., 28 lbs. @ 8/- lb.; c. Creta. 28 lbs. @ 2/6½ lb.; Iodid. Rub. 28 lbs. @ 12/8 lb.; Oxid Rub., 28 lbs. @ 8/- lb.; Perchlor., Lump, 28 lbs. @ 7/9 lb.; Subchlor. 28 lbs. @ 7/6 lb.; Sulph. c Sulph., 28 lbs. @ 7/- lb.; 7-lb. quantities 1d. lb. extra. 3-lb. quantities, 2d. lb. extra, 1-lb. quantities, 3d. lb. extra.
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* ,, Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* ,, Buchu Conc., 1 to 7, 6 lbs. @ 2/9 lb.
* ,, Calumbæ Conc., 1 to 7, 6 lbs. @ 1/2 lb.
* ,, Caryoph. Conc., 1 to 7, 6 lbs. @ 1/4 lb.
* ,, Cascarilla Conc., 1 to 7, 6 lbs. @ 1/7 lb.
* ,, Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/11 lb.
* ,, Gentianæ Co., 1 to 7, 6 lbs. @ 1/4 lb.
* ,, Quassiæ Conc., 1 to 7, 6 lbs. @ 1/- lb.
* ,, Rhei Conc., 1 to 7, 6 lbs. @ 1/10 lb.
* ,, Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 2/11 lb.
* ,, Senegæ Conc., 1 to 7, 6 lbs. @ 2/8 lb.
* ,, Valerian Conc., 1 to 7, 6 lbs. @ 1/10 lb.

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,, Tereb. Acet., B.P., 5 lbs. @ 1/3 lb.
Linseed c. Oil, Crushed, 3 cwt. @ 42/6 cwt.; 1 cwt. @ 43/6 cwt.
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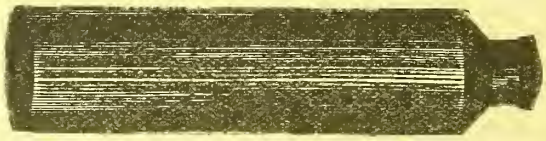

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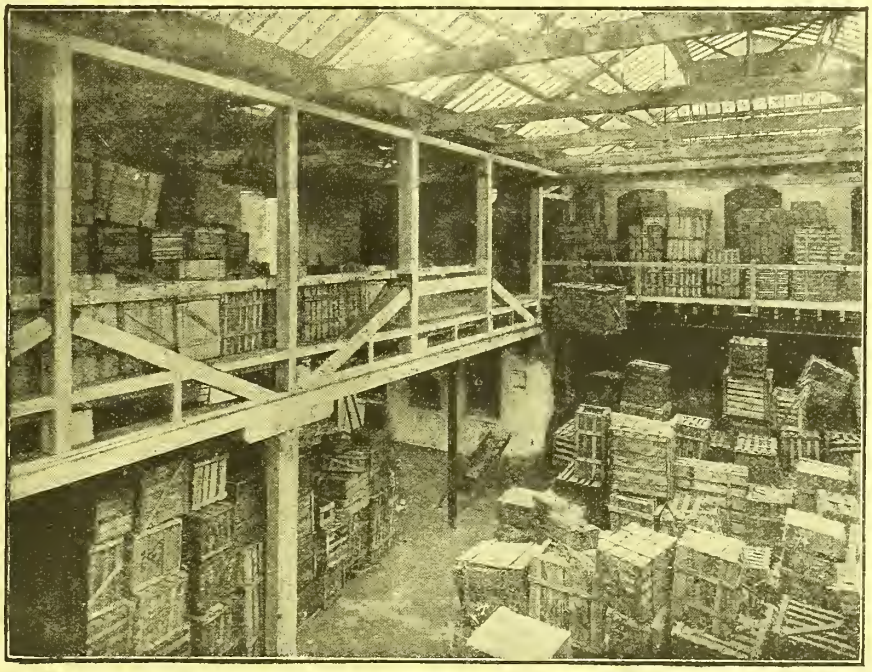

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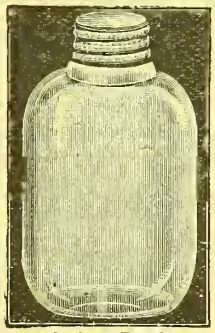

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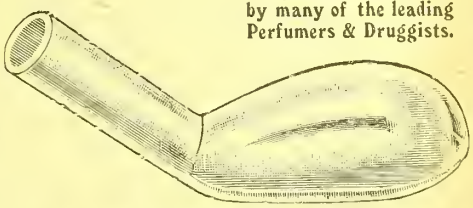

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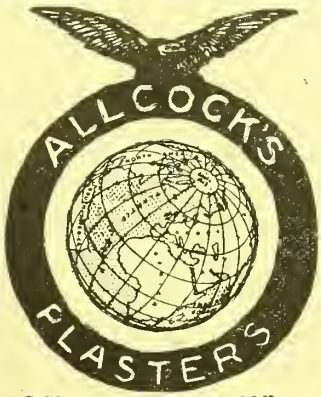

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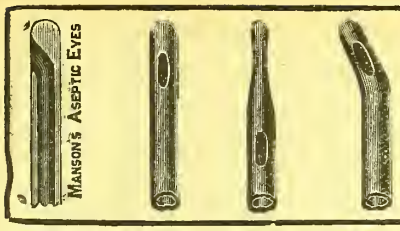

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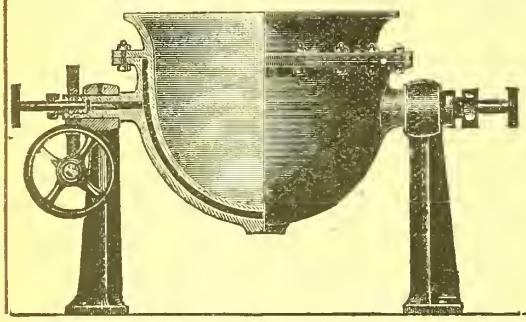

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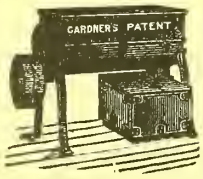


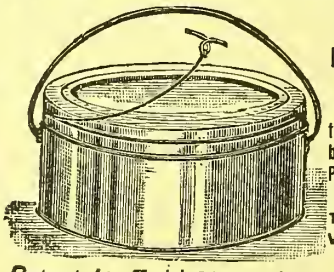
OVER 4,000 working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust

FOR HAND OR POWER.
From 55/- to £90.
CATALOGUES FREE.

WM. GARDNER & SONS, Engineers, GLOUCESTER.

The Northern Tin Canister Works,

6 Mersey Street,
LIVERPOOL.



Patent Air Tight Slip-lid Tin For Export.

We manufacture for the paint trade in all its branches—Decorated and Plain work.

TIGHT SEAMING & VARNISH BOTTLES A SPECIALITY.

Prompt Deliveries Assured.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, MARCH 31, 1917.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 2617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

EASTER HOLIDAYS

NEXT week THE CHEMIST AND DRUGGIST SUPPLEMENT will be put to Press a day earlier than usual. Therefore any advertisements intended for the SUPPLEMENT of April 7 should reach this Office not later than

2 p.m. on Wednesday, April 4

ADVERTISEMENTS RECEIVED LATER WILL BE INSERTED IN OUR ISSUE OF APRIL 14

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—SLOANE STREET (Near).—Retail and Dispensing Business; held by vendor upwards of 30 years; returns £2,000; *gross profit* 50 *per cent.* (proof given); terms, goodwill £250, stock and fixtures by valuation; good opening for a partnership.

2.—TOTTENHAM.—Ready-money Business; returning, under Manager, £1,400 to £1,500 at good prices; books kept by accountant and stock taken annually; about £375 required to purchase, £200 on entry, and balance by instalments.

3.—LONDON, W.—Retail, Dispensing, and Optical; chiefly ready money; returns about £1,000 yearly; well-fitted shop; no active opposition; price £450.

4.—HYDE PARK.—For immediate Disposal, high-class Dispensing and Retail Business; returns about £1,200; *gross profit between* £650 *and* £700; the business is known to us, and we can recommend it; valuation terms.

5.—LONDON (Northern Suburb).—Situate in main shopping thoroughfare, well-established Business; increasing income; returns between £1,000 and £1,100; profits exceed the usual rate of middle-class business; well-fitted shop and comfortable residence, with garden; price £600.

6.—CITY PHARMACY.—Neglected Business; returns, present rate, under Assistant, about £13 weekly; an opportunity presents to materially extend the turnover; offer wanted.

7.—BANKS OF THE THAMES.—Retail and Dispensing Business; very good connection with local medical men; returns upwards of £1,200; *net profit* £300; price £800; stock and fixtures estimated at £600.

8.—WESTERN COUNTY.—Old-established Business, Retail, Dispensing, and Agricultural; situate in best position in good market town; returns about £1,700; about £1,000 required, for which full value is offered.

9.—SUSSEX.—For immediate Disposal, well-established Business returning between £700 and £750; *profits about* 50 *per cent.*; commodious premises; rent £40 yearly; new lease will be granted; price to be arranged equitably; illness cause of sale.

10.—WEST OF ENGLAND (Health Resort).—Select, good-class Business, admitting of extension; returns about £1,400; well-stocked shop and good house, on lease; price £1,200.

11.—LAKE DISTRICT.—Mixed Business, with excellent sale for own Proprietaries; returns about £3,000; terms, stock and fixtures at valuation and sum for goodwill to be arranged equitably.

12.—HOME COUNTY (Residential Locality).—Select good-class Business, admitting of extension; returns about £1,000 at good prices; well-appointed shop and good house; price about £700.

13.—HANTS.—Mixed Country Business; established about 100 years; returns £800; *net profit* £300; large double-fronted shop; comfortable residence; price £450.

14.—BOURNEMOUTH.—Old-established Business, essentially Dispensing and Family Retail; position unique; returns £2,500; under modern management an opening presents to considerably augment the turnover; terms, valuation of stock and fixtures, less a substantial rebate; vendor retiring.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

PARSON C. BAKER
(Pharmaceutical Chemist),
Trade Valuer & Transfer Agent,
Recommended by The British Drug Houses, Ltd.; Messrs. Meggeson & Co.; Barclay & Sons, Ltd.
Valuer to the Association of Manufacturing Chemists.
1 Mountfield Road, CHURCH END, FINCHLEY, N.
Tel. No.: Finchley 812.

BATTAM & HEYWOOD
(Estd. 1837.)
CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS.
Balance Sheets Prepared. Books Audited.
3 DAVIES STREET, BERKELEY SQUARE, W.
Telephone: Gerrard 2169.

BERDOE & FISH
VALUERS & TRANSFER AGENTS,
35 Jewry Street, Fenchurch Street, City.
Telephone: 1809 Central.
NO CHARGE TO PURCHASERS.

1.—SOUTH COAST.—First-class Retail and Dispensing Business, with scope for large increase; commanding position; low rent; elegant fittings and good stock; owner retiring through old age; valuation only required, about £700; part could remain; personally inspected and recommended.

2.—DEVON (Market Town).—Good-class Retail, Agricultural, and Photographic Business, under management and scope for increase; returns average £1,300; principal did £1,500; main road position; splendid premises; fully stocked; price simply valuation, about £900 to £1,000.

3.—HERTS (Market Town).—Most desirable Light Country Retail; easily worked; returns about £900; good profits; excellent house, bathroom, etc.; very best position; well stocked; price for prompt sale, £400 cash; strongly recommended.

4.—LONDON (12 miles out).—Middle-class Retail and Dispensing, with Dentistry; returns approach £1,300, increasing; net profit over £400; modern house and large garden; rent £50; compact, well-fitted Pharmacy, well stocked; price £600, or £150 and valuation; partnership entertained.

5.—LONDON, N.W.—Exceptional offer; Light ready-money Suburban Retail, returning over £20 a week; no immediate opposition; rent more than covered by letting off house, on lease; double-fronted shop; heavily stocked; price for quick sale £350, or would accept £150 for lease and fixtures and remove stock, or so much as not required.

STOCKTAKINGS.
Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application. See page 90 of the *C. & D. Diary*, 1917.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

LONDON, S.E.—Spacious shop, with Post Office attached; electric light; good house and convenient cellars; small garden, with back entrance; pleasant neighbourhood; average takings for past three years £16 weekly; 400 N.H.I. Prescriptions monthly; Post Office pays over £100 yearly exclusive of commissions during war; rent £40; rates low; no Sunday business has been done, scope for same; fine opportunity for qualified man. 187/21, Office of this Paper.

SUBURBAN.—Turnover £930, increasing; rent £45; well fitted and stocked; sale owing to ill-health; any reasonable offer accepted. 186/4, Office of this Paper.

A CHEMIST, retiring, and having sold premises in the business centre of an important naval and military town, where a profitable business has been carried on for a century, is prepared to offer exceptional terms to a right business man to succeed to the same; a net profit of £250 may be at once looked for; references given to houses dealt with for 50 years; roughly, the fittings, which are very handsome, and stock may be £250; a man with £150 could have balance on future payments; they can be removed to adjoining premises, which will be available then. Apply, 186/38, Office of this Paper.

BUSINESS for Sale.—Upper Largo, Fife.—Good Country Business for Sale, owing to death of Proprietor. Full particulars from Raimes, Clark & Co., Ltd., Wholesale Druggists, Leith Walk, Edinburgh.

FOR Sale.—Business in S.E. London, in thickly-populated district; established about 55 years; returns about £550 without N.H.I. Dispensing, rapidly improving; rent £31, with 6-roomed house; price £175; illness cause of sale. Apply, 186/36, Office of this Paper.

OLD-ESTABLISHED Drug Stores; main thoroughfare; working-class; North London; well fitted and stocked; proprietor called up; must sell; £100; stock at valuation. Apply, 188/21, Office of this Paper.

PARTNERSHIPS.

ABLE Pharmacist, ineligible for military service, with not less than £300 to invest, required as Partner; no objection to a lady. Apply, giving a brief outline of experience, to "Personal and Confidential," c/o Mr. William Shadforth, Pharmaceutical Chemist, 63 Grove Road, Bow, London, E. 3.

PARTNERSHIP.—A well-known London Retail Pharmacist in a large way of business requires a Partner. Applicants (i) must not be eligible for the Army; (ii) must be able business men experienced in management; (iii) must possess the Minor or preferably the Major qualification; (iv) must be able to invest £200; fullest opportunities for investigation will be given and expected; information so imparted will be confidential; applications which are not entertained will be acknowledged when the vacancy is filled. Apply, 172/10, Office of this Paper

STUDENT (male), entering upon Minor studies, desires to meet another with view to sharing apartments for mutual benefit; moderate means; Clapham. Apply, 185/22, Office of this Paper.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

ALL North of England, Lancashire, and Yorkshire.—Permanency or duration of War.—Gentleman (ineligible) covering this ground is open for an additional Agency on part expenses and commission basis; live connection; Drugs, Packed Goods, Specialties, or Sundries. Address, A. M. Gent, 73 Randolph Street, Levenshulme.

ADVERTISER, visiting India, Burmah, Ceylon, Malay, China, etc., after the War, many years' connection, requires Sole Agencies for first-class lines for European and native trade; big business obtainable; advertiser Englishman; commission or commission and part expenses; manufacturers only represented. Apply, "N.," Box 201, Balfour House, Finsbury Pavement, London, E.C. 2.

FOR SALE.

FITTINGS, handsome Spanish Mahogany, and Plate Glass, Plate-glass Window Shelves, Y. G. Co.'s Recess Label Bottles and Jars for Sale in one lot by Chemist retiring; first reasonable offer accepted; London 40 miles. 186/380, Office of this Paper.

SALICINE Tabs., gr. v., 1½ lb.; Salicine Powder, 6 oz.; Caffein Cit. Tabs., gr. 5, 3½ lb.; Sod. Cit. Tabs., gr. x., 8 lb.; gr. 5, 2¾ lb. What offers, any quantity? 194 Crystal Palace Road, S.E. 22.

SMALL National Cash Register (second-hand) for Sale; Total adder, and in good condition; cheap. Write at once to F. Stapleton, 97 Great Titchfield Street, W.

WHAT Offers?—Complete Fixtures small Pharmacy; with or without small stock; removal or continue in same premises; valuation about £150. Apply, 184/6, Office of this Paper.

BUSINESSES WANTED.

SMALL Drug Store; suitable for lady; living accommodation; London area or near London; cheap. Full particulars to 185/39, Office of this Paper.

WANTED to Purchase at once, a good, genuine, Light Retail Business with fair weekly turnover; Yorkshire preferred; prompt payment for suitable concern, and replies treated in confidence. J. H. Campbell, 13 Ashville Terrace, Headingley, Leeds.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

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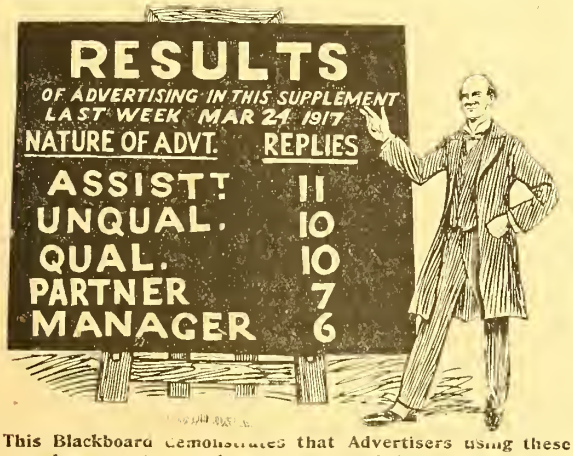

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BATH.—Wanted immediately, Assistant for Dispensing Counter; lady or gentleman; outdoors; moderate hours; temporary or permanent. Apply to the Manager, Davies & John, 15 Old Bond Street, Bath.

BIRMINGHAM (Near).—Smart young lady Assistant required; must be a good Dispenser and have had Counter experience; permanent and comfortable berth. "Hazel" (185/130), Office of this Paper.

BIRMINGHAM.—Firm of Retail Chemists has an opening for a smart, unqualified man, age about 46, to assist in Stock-taking department; must be quick at figures and well up in the trade; permanency if satisfactory. "Stock" (185/134), Office of this Paper.

BIRMINGHAM.—Lady Assistant (qualified) required immediately. State experience and salary, Wilkins, 359 Birchfield Road, Perry Barr.

BLACKPOOL.—Smart Assistant (ineligible), for quick, up-to-date business; accurate Dispenser and good Counterman; good progressive salary to suitable man. State full particulars, experience, age, references, etc., also photo (to be returned), Galloway, Blackpool.

BRIGHTON.—At once, competent Assistant for Light Retail; comfortable, permanent situation in healthy district; no N.H.I. Stead, Duke Street, Brighton.

CARDIFF.—Vacancy for good Assistant; outdoors. Duck & Son, Chemists, Cardiff.

COVENTRY.—Wanted, Assistant (male or female) for Retail and Dispensing business; Counter and Dispensing experience essential; outdoors. State full particulars, experience, and salary required, to J. Robinson, Chemist, 22 Cross Cheaping, Coventry.

CROYDON.—Assistant wanted (capable) for Dispensing and general and Counter work. Apply, stating experience, salary, etc., "Chemist," 77 High Street, Croydon.

DERBYSHIRE Border.—Lady, with Counter experience, for select suburban Retail; time for study and recreation; healthy situation with glorious country nearby. State full particulars, salary required (indoors), and send photo if convenient (to be returned), to G. H. Evans, 331 Albert Road, Meersbrook, Sheffield.

DISS, NORFOLK.—Wanted, in an Agricultural and Dispensing business, an unqualified Assistant. Apply, with full particulars of age, experience, and salary required, to Gostling & Co.

EALING, W. 5.—Wanted, an Assistant (gentleman or lady) for good-class Dispensing and Retail; outdoors. Apply, stating age, experience, references, salary required, with photo, to W. A. Weston, 8 Sandringham Parade, Ealing, W. 5.

LEDBURY, Herefordshire.—Wanted, Assistant, lady or gentleman (ineligible), unqualified, with some previous experience in Dispensing, for a good-class country town business. Apply, with photo, to W. Harrison Osborne, Pharmacist, Ledbury.

LONDON.—Junior Assistant; 22-25; ineligible; N.H.I. and Counter; good salary and reasonable hours; one whole day off weekly. Briggs, Chemist, 126 Hoe Street, Walthamstow.

LONDON, E.—Smart qualified Manager required for modern Store business; good agreement, with interest in the profits offered to a really capable man; permanency, "E." (185/133), Office of this Paper.

LONDON, N.E.—Qualified Manager (under principal) in brisk business with three branches; over military age or ineligible for Army; hours from 9 a.m. till 9 p.m. Please give full particulars, stating age, experience, and salary required (letter only), to "Chemist," 300 Amhurst Road, Hackney, N.E.

LONDON, N.W.—Wanted at once, capable Assistant (male); unqualified; quick and reliable Dispenser; ineligible for Army. Apply, with full particulars, salary required, &c., to W. R. Ames, High Street, St. John's Wood.

LONDON, N.W.—Qualified Assistant wanted for light work; elderly gentleman or lady. P. Davidson, Pharmaceutical Chemist, 342 High Road, Brondesbury, N.W.

LONDON, N.W.—Wanted, Junior Assistant, lady or gentleman (ineligible); Dispensing and Retail. Apply personally, or if by letter, state full particulars and salary required, W. H. Bell & Co., 96 Albany Street, Regent's Park, N.W.

LONDON, S.W.—Young lady Assistant required; must be a good Dispenser; preference given to one who has had some experience with a Chemist. "King" (185/131), Office of this Paper.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

LONDON, W.—Assistant (outdoors); ineligible; accustomed to good-class Dispensing business; or lady able to Dispense, with some knowledge of the business; moderate hours; good salary to suitable applicant. Send usual particulars and reference, J. W. Feltwell, 91 Hammersmith Road, West Kensington.

LUTON.—Wanted, lady Assistant for Dispensing and Counter work; easy hours. Apply, J. T. Sunman & Son, Chemists, 43 Wellington Street, Luton.

MANCHESTER.—Smart young lady Assistant required; must be a good Dispenser and have had Counter experience; permanent and comfortable berth. "Wellington" (185/13), Office of this Paper.

MANCHESTER.—Qualified Assistant for Dispensing and Light Retail; ineligible; outdoors. Particulars, W. H. Delve, M.P.S., 310 Stretford Road, Manchester.

MANCHESTER.—Wanted, competent Assistant; unqualified; ineligible; must bear good references and have varied experience. M. Matz, M.P.S. Chemist, 5 Bury New Road, Manchester.

NEAR MANCHESTER.—Wanted, qualified Assistant; comfortable position; would suit elderly or lady. Apply, stating salary required (outdoors), and enclosing references, etc., to 187/15, Office of this Paper.

SHEFFIELD.—Qualified Manager (gentleman or lady) for middle-class business; must be quick and reliable; date required, April 12th. State particulars, age, and salary required, to 407 Staniforth Road.

SOUTH of England.—Assistant required; free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

TAUNTON.—Capable Assistant of good address for Counter and Dispensing; a good permanent berth for energetic gentleman. State full particulars, in first letter, salary required, qualified or unqualified, and enclose photo, 185/27, Office of this Paper.

WOLVERHAMPTON.—Assistant wanted, lady or gentleman (ineligible); outdoors; qualification not essential. State experience, with reference and salary required, to M. R. Warner & Son, Chapel Ash, Wolverhampton.

WORTHING.—Qualified Manager for Light Retail business, with some Photographic; South Coast; good house accommodation. Particulars to W. Aston, Pharmaceutical Chemist, 27 Montague Street, Worthing.

YORKSHIRE (West Riding).—Manager (qualified) required for progressive Cash business; must be a rejected man or above military age; liberal interest in the profits offered to a really capable man. "Urban" (185/132), Office of this Paper.

ASSISTANT (lady or ineligible) for Light Retail, Dispensing, and Photographic business in healthy Midland country town. State full particulars and salary required, to Blades, Chemist, Leek.

ASSISTANT; unqualified; male or female. References and salary to Mitchell, Chemist, Gretna.

ASSISTANT (ineligible for military service), or lady Assistant used to Dispensing and Counter; comfortable berth; two kept. Please state age, experience, salary (outdoors), and latest references, Bevan & Son, Pharmacists, Harwich, Essex.

ASSISTANT, lady or gentleman, for Dispensing, Counter, and Stock; outdoors. State salary and experience, A. J. Hall, 196 Belsize Road, N.W. 6.

ASSISTANT, lady or gentleman, required for good-class Retail and Dispensing; outdoors. Full particulars to Selby, Dispensing Chemist, Haywards Heath, Sussex.

ASSISTANT wanted immediately; West End experience. Rouse & Co., 12 Wigmore Street, W. 1.

ASSISTANT with good experience for night duty. Apply, John Bell & Croyden, 50 Wigmore Street, W. 1.

ASSISTANT; must be good Window dresser; no Sunday or Bank Holiday duty; outdoors; permanency; good chance for advancement. Apply, stating experience and salary required, Hunter, 278 Bishopsgate, London, E.C. 2.

COUNTER Assistant wanted (male or female) for brisk trade; ineligible for Army. Apply personally, or state full particulars, including salary required, to Wm. Fox & Sons, Ltd., 109/113 Bethnal Green Road, E. 2.

JUNIOR Assistant (ineligible), or young lady, for good-class Retail and Dispensing business; indoors; seaside town. Apply, stating age and salary required, and send photo, if possible. W. H. Woodman, M.P.S., The Royal Pharmacy, Burnham-on-Sea.

JUNIOR Assistant for Dispensing and Counter work, male or female. State experience and wages; short hours; no Sunday duty. Wovenden, Sale, Manchester.

LADY Assistant (qualified) required for first-class Retail and Dispensing business; moderate hours; good salary and every consideration given to suitable applicant. State full particulars and salary required (outdoors); a very desirable berth for a smart lady. R. H. Tootill, Pharmaceutical Chemist, Altrincham.

LADY (qualified) as Manager for branch business doing a light trade, including Photography; outdoors; no Sunday duty; easy hours. State full particulars and salary required, Bates & Hunt, Wellington, Salop.

MANAGER for small business; used to N.H.I., Light Retail, and Dispensing. Apply, Sangster, 2 College Crescent, Hampstead, N.W. 3.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

PRESCRIPTION PRICING OFFICE (N.H.I.) require Supervisor with expert technical knowledge and experience of Dispensing Practice. Address, stating fully experience, qualifications, age, salary required, and earliest date at liberty, Secretary, West Midlands Joint Committee, High Street, Smethwick.

QUALIFIED lady Dispenser with good experience, or male Dispenser (ineligible for the Army). Kindly address full particulars to "Squills," c/o Maw, Son & Sons, 7/12, Aldersgate Street, E.C. 1.

REQUIRED, Counter Assistant (female), used to Druggists' Sundries; must have smart appearance; hours of work 8.45 to 6 o'clock, 1 o'clock Saturdays; no Sunday duty. Write, stating full particulars of past experience and salary required, to "L. J.," 1705, Sells' Advertising Offices, Fleet Street, E.C. 4.

TWO capable Assistants required (ineligible or ladies) for Dispensing business. Particulars, Nathl. Smith & Co., 373 High Street, Cheltenham.

WANTED, Manager (qualified) for high-class Pharmacy; also unqualified man; must be good Salesman; first-class references essential. Write, Bennison, Ph.C., 133 King's Road, Chelsea, S.W. 3.

WANTED, lady Assistant for Counter and N.H.I. Dispensing; no Sunday duty. Apply, stating particulars, to C. A. Jones, Chemist, Reddish, Manchester.

WANTED, a qualified lady Dispenser. Apply, stating age, experience, and salary required, Reynolds & Branson, Ltd., Leeds.

WANTED, resident Manager for good-class suburban business; married preferred; with working knowledge of Photography and Optics; very little N.H.I.; liberal salary and commission. Apply, "Chemist-Optician," "West Stow," Carshalton Road, Sutton, S.W.

WANTED, qualified lady or gentleman; Country business; beautiful scenery; easy and comfortable berth; half-day; no Sunday duty. Please reply, with full particulars as to experience, age, salary required, etc., to "Salol" (186/37), Office of this Paper.

WHOLESALE.

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CITY house requires experienced man as Stockkeeper in Bottle Department; ineligible. Apply, full particulars, 249/53, Office of this Paper.

WOLVERHAMPTON.—Laboratory Assistant required to prepare Galenicals and Proprietaries on a large scale. Manufacturing experience desirable but not essential; applicants should be men ineligible for the Army or women. Full particulars of experience, age, and salary required should be sent to Martyn's Stores, Ltd., 26 Queen Street, Wolverhampton.

ASSISTANTS wanted at once for the Wet Room and Pill Department. Apply, Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

CHEMIST wanted for Government-controlled Sugar Refinery; must have experience of Sugar Refining, Analysis, etc., and be ineligible for military service or over 30 years of age and below Class B 3. References and name of present or last employer to be sent with application. Write, Box G991, Lee & Nightingale, Liverpool.

EXPERIENCED man wanted for the manufacture of Face Creams, Powders, etc.; good prospects for right man. Apply, full particulars, 179/14, Office of this Paper.

EXPERIENCED Packer wanted. Apply, Gale & Co., Ltd., 15 Bouverie Street, E.C. 4.

FEMALE Packing Department.—Efficient Manageress required for small Packing Department of Provincial Wholesale Drug house; must have some knowledge of Drugs and simple Book-keeping, and be capable of taking entire supervision. Apply, stating age, salary required, and previous experience, to "Seidlitz" (254/5), Office of this Paper.

INVOICE Clerks and Telephone Clerk (male or female), experienced in the Drug and Patent Medicine trade, wanted immediately. Apply, with references and salary desired, to Goodall, Backhouse & Co., Leeds.

JUNIOR Invoice Clerk (lady) required by London Wholesale Druggists. Apply, with full particulars, to 252/36, Office of this Paper.

SALES Manager required for London Wholesale house, to replace man joining up; experience in pushing Packed and house Proprietary goods; able to write effectively, exhibit initiative in introducing new lines. Write, stating experience, salary, etc., 252/23, Office of this Paper.

TRAVELLER, experienced, with connection amongst Chemists, required for London and South Coast; also West of England and Wales. Apply, with fullest particulars, to 252/54, Office of this Paper.

TRAVELLER required for London and Provinces to Represent Druggists' Sundries House. Apply, 179/140, Office of this Paper.

WANTED, Girls for Labelling. Apply, The Kraska Co., Ltd., 7 Blenheim Street, W.

WANTED, experienced Stocktakers (ineligible for the Army); willing to travel about the country. Write, giving particulars, to 185/25, Office of this Paper.

WANTED, in the Laboratory of a Wholesale firm of Manufacturing Chemists, a man accustomed to the making of Tinctures, Infusions, etc. State experience and wages, 251/46, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for **50** words or less; **6d.** for every **10** words or less beyond, prepaid. The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

CHINA.—One or two thoroughly competent Assistants (ineligible for military service); age 21-30; must have had good experience in high-class Retail business; liberal terms; two years' agreement; passage paid out and home. Address, "China" (186/19), Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]

RETAIL.

AS Manager or Senior; Minor; ineligible; experience. Edwards, 891 Fulham Road, S.W.

ASSISTANT (30), unqualified, rejected, married, competent, capable taking charge, seeks permanency in Country town; disengaged shortly. Full particulars, salary offered, to "Phenol" (185/30), Office of this Paper.

ASSISTANT; unqualified; age 38; rejected for Army; North London preferred. Apply, 186/14, Office of this Paper.

BRANCH Manager; 20 years' experience; Dispensing and Retail; references; disengaged; over military age. Particulars and salary offered, "Extractor" (185/40), Office of this Paper.

BIRMINGHAM.—Chemist in Part-time situation has afternoons and one evening per week at disposal; moderate salary; good references. Apply, 186/22, Office of this Paper.

COMPETENT Assistant or Manager; good Dispensing experience; quick Counter trade, Photography, Dentistry; steady and reliable; ineligible; at liberty after 16th. Please state salary offered, Healey, 4 St. Jude's Place S. Liverpool.

DISCHARGED soldier; 25; 5 ft. 10 in.; unqualified; good appearance; 9 years' first-class experience; Bournemouth district preferred, but not essential. Apply, 187/8, Office of this Paper.

DISENGAGED till May 1st, afterwards evenings; 27; Minor, S.M.C.; unique experience in Pharmacy and Optics. Mr. G., 47 Molyneux Street, W.

DISPENSER (or other Light work); elderly, active, qualified; S.W. County preferred. Apply, 182/4, Office of this Paper.

DISPENSER (lady); disengaged in May; Apothecaries' Hall qualification; over six years' thorough practical experience in general Practitioner's and Institutional Dispensing; excellent references. Apply to 185/26, Office of this Paper.

DISPENSER; qualified; experienced; ineligible; temporary, Whole- or Part-time. "A.," 2 Empire Road, Torquay.

DISPENSER; Assistant; 29; substitute A 1 being called up. 203 Whitecross Street, E.C.

ENGAGEMENT for Thursday evenings, occasional Sunday, and Bank Holidays. "G.," 241 Seven Sisters Road, N.

EVENING Relief; 6 p.m. to 9 p.m., except Saturday; M.P.S., F.S.M.C.; young, experienced Manager; abstainer. State salary offered, 186/2, Office of this Paper.

LADY Dispenser (Hall) desires post with Doctor or Chemist; two years' practical experience with Doctor; free end of April. 185/10, Office of this Paper.

LADY seeks post Assistant Dispenser; twelve months with Chemist; Doctor, Hospital, or Chemist. "R. L.," Havenfield, High Wycombe, Bucks.

LADY Dispenser, experienced, wishes for daily post with Doctor in Suffolk. Apply, 254/10, Office of this Paper.

LOCUM; qualified; varied experience; Sheffield district preferred; Hospital or Pharmacy; disengaged April 16th. "Pharmacist," Elmwood, Barnsley.

M.P.S.—Pharmacy Medallist, desires Management Family Dispensing business, on view to succession; young; ineligible; capable organiser, with initiative; all-round high-class experience; shortly disengaged. "Maund," Graydon, Woolhope Road, Worcester.

MANAGER; qualified; ineligible; reliable; London or S.W. suburb. Apply, 184/3, Office of this Paper.

MANAGER (qualified) desires permanency; country town or seaside preferred; 18 years' experience; good all-round knowledge; just discharged from Army; age 34. "Arturo" (185/23), Office of this Paper.

MANAGER; qualified; open to change; excellent testimonials (unsolicited); 12 years' London experience in West End and Store trade. Apply, 185/11, Office of this Paper.

MANAGER (qualified) seeks engagement; view to purchase 3 months; London or near. Apply, 187/9, Office of this Paper.

MANAGER; open for immediate engagement; thoroughly experienced. "Ph.C.," 220 Elmhurst Mansions, Clapham.

PART-TIME.—Dispenser, lady (Hall), experienced Chemists, seeks morning or evening work; London. Apply, 188/6, Office of this Paper.

QUALIFIED; 40; Manager, Senior; disengaged soon; exceptional experience; any locality; good-class business with N.H.I. preferred. "Chemist," 72 Burleigh Road South, Everton, Liverpool.

QUALIFIED, elderly, active; Part-time. "Pharmacist," 192 Rushmore Road, Clapton, E. 5.

QUALIFIED; disengaged shortly; 45; married; Locum or permanency; experienced; highest references. 188/16, Office of this Paper.

STOCK, Etc.—Competent, experienced young lady seeks berth. "Euthymol," 35 Osborne Road, Hounslow, Middlesex.

UNQUALIFIED, 23. C 3, present engagement three years, desires change; Dispensing, Counter, and Photography; abstainer. Kindly state hours and salary offered. Apply, 186/21, Office of this Paper.

UNQUALIFIED; Manager or Assistant; discharged from Army; 18 years' experience; good references; permanent or Locum. "Phenol," 33 Crosby Road, Birkdale, Southport.

YOUNG lady Assistant, with four years' good experience, requires re-engagement early April; excellent references. "G. B.," 23 Hawley Square, Margate.

WHOLESALE.

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A DOCTOR'S son, 33 (ineligible), experienced, highest credentials, desires post (London), with view to Purchase or Partnership. Apply, 186/20, Office of this Paper.

ANALYTICAL Chemist (ex-Army), with first-class experience of Oil and Drug Checking, and possessing excellent English references, seeks temporary employment as Laboratory or Works Chemist; near London. Apply, Beghin, Rossmoyne, Greenford Road, Sutton, Surrey.

DISENGAGED; rejected; unique experience Factory, Clerical, etc.; accustomed handling fine Chemical and Pharmaceutical products and control staff; active and enterprising. "Foreman" (186/31), Office of this Paper.

HOSPITAL Pharmacist, Major qualification, seeks employment in Manufacturing or Wholesale house readily accessible to North London and Strand, three or four mornings each week. Apply, 188/13, Office of this Paper.

PACKER or female Laboratory Assistant with long experience desires situation. 187/4, Office of this Paper.

REPRESENTATIVE (over military age) seeks new appointment; extensive connection amongst Chemists, Grocers, Wholesale and Retail Soap and Perfume Proprietary; London, South Coast, Home Counties. Apply, 254/45, Office of this Paper.

SUBSTITUTE requires situation; Counter; release A 1 being called up. 203 Whitecross Street, E.C.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone, 81 Lee Green.
Shares for Sale (free of commission, subject).—25 Allenbury "C" Preference, 20s. c.d.; 60 J. C. Field Ordinary, 5s. 4½d.; 60 International Sponge Ordinary, 8s. 1½d.; 50 Lewis & Burrows Ordinary, 5s. 1½d.; 50 6 per cent. Preference, 12s. 9d.; 100 Molassine 7 per cent. Preference, 13s. 9d.; 20 Natal Ammonium Preference, 15s. 3d.; 100 Watford Manufacturing Preference, 10s. 1½d.; 200 British Oil Cake Ordinary, 28s.; 600 International Plasmon Preference, 14s. 4½d.; 100 Peck Frean Preference, 16s. 10½d.
Wanted (subject).—Allenbury and Wright Layman Preference; Idris Debentures.
Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

MANGANATE of Soda, ¾ of a ton; what offers? Lambert Brien & Co., Ltd., 64 Grafton Street, Dublin.

SECOND-HAND Shop Fittings. — 12 ft. Glass-fronted and Mahogany Serving Counter, £8 15s.; Counter Silent Salesman, with bent front and two plate-glass Shelves, £5 15s.; 7 ft. Mahogany Wall Case, equal to new, £11 10s.; quantity of second-hand Shoprounds, Oils and Syrups, Pill Pots, Tincture Press, etc. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

CHEMISTS' Fittings (Second-Hand).—Ranges of Drawers, Shelving, and Lockers, Counters, Dispensing Screens, Bent Cases, etc., etc.; 2 only new gross sets of Ribbon Label Shop Rounds. D. Matthews & Son, 14 and 16 Manchester Street, Liverpool.

ASPIRIN P.B., guaranteed, in 5-grain tablets; bulk price, cash with order, post free.

1,000 @ 15/- | 5,000 @ 14/6 | 10,000 @ 14/-

R. GIBBINS & CO., 1 BIRKBECK RD., KINGSLAND, LONDON, N.E.
(R. GIBBINS)

WOOD BOXES,

Strong, once used, for Sale in large quantities, near London.

15½ in. by **12 in.** by **11½ in.** deep.

Send best offers to

No. 244/42, Office of this Paper.

Out-of-date Cameras bought.

Chemists often take in exchange an old Camera as part payment for a new one, or have same left on their shelves. We buy these on Cash Terms. Try us.

WATSONS, 84 High St., SHEFFIELD.

Make your windows more attractive

and eye-compelling by using DUDLEY & CO.'s Celebrated "White and Black" Window-Dressing Papers, produced in intense velvety black on brilliant snowy-white enamelled paper, thereby emphasizing the naturally vivid contrasts of black and white. Sold in rolls 12 yds. long, 22 ins. wide.

No 3014.N. Trellis Design
2/4 per Roll, 12 for 27/-

No 3010.N. Stripe Design
2/4 per Roll, 12 for 27/-

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2/4 per Roll, 12 for 27/-

Illustrated List No. C266, showing over twenty designs in Window-Dressing Papers, with suggestions how to use most attractively, free on receipt of trade card. A real boon to smart window dressing.

DUDLEY & COMPANY, 451, 550 & 558 HOLLOWAY RD., LONDON, N.
City Showrooms: 25 Wood Street, Cheapside, E.C.

FOR SALE.

6,000 lbs. Diamond Black PV (Wool Dye), full strength, pulverised. $3 the pound; 2,000 lbs. Basic Black D, $4.25 the pound; 500 lbs. Xeroform, $11 the pound; 500 lbs. Benzonaphthol, $20 the pound. Prices f.o.b. New York.

Address: THE AMERICAN EXPORT AGENCY, 25 BROAD STREET, NEW YORK.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of **1/-** for six words or less; **2d.** per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Odol rose (186/32)
Packer's tar soap (186/32)

FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

Amidopyrine, 18 oz. (186/39)
Antipyrine salicyl, 16 oz. (186/39)
Barbitone, 7 oz. (186/39)
Ext. opii mol .98, 8 oz. (186/39)
Resorcin, 24 oz. (186/39)
Pilocarpine nit. ¾ oz. (186/39)
Sulphonal, 8 oz. (186/39)
Theobromine, 8 oz. (186/39)
Thiocol, Roche's, 3 oz. (186/39)

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6*d*.

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FOR DISPOSAL.

DRUGS AND CHEMICALS.

WHAT offers for 4 x 100s 5-gr. phenacetin tabloids? Brooks, Whitby.

MAG. peroxide, 15 per cent., 28 lb.; what offers? Apply, 185/170, Office of this Paper.

SANAPHOS; all sizes; half face value to clear; unsoiled. Humphrey, Chemist, Cleethorpes.

MISCELLANEOUS.

PERSONAL weighing machine; 30*s*. 61 Peckham Park Road, S.E.

SPIT bottles, metric weights, cork borers, rheumatic rings, elastic hosiery. Hasselby, Hastings.

ABOUT 5 gross clean unused 2-oz. glass bottles. Offers to T. Stanley Hamer, National Emporium, Llanidloes.

12 gross white glass screw-topped pomade bottles; fluid capacity 1½ oz.; packed in 1 doz boxes. Ward, Brook Street, Chester.

SHARES.

UCAL.—One £5 founder's share, with coming dividend; offers; no reply 4 days declined. George, 4 Sarah Street, Sheffield.

WANTED.

HALF-DOZEN or less FUO dentifrice. Newsholme, Ltd., 27 High Street, Sheffield.

MACHINE for making compressed face powder. Apply, 185/17, Office of this Paper.

TINCTURE press, two or four gallons. "H. of H." Offices, 11 Southampton Row, W.C. 1.

2-oz. opal octagonal jars or others suitable for toilet cream. Particulars to Ashfield, Rhyl.

"SPARKLET bulbs D" refills or empties wanted. State price, "Barrow" (248/2), Office of this Paper.

WANTED, 1,000 gross 1-dram short rd. vials. For samples apply The Kraska Co., Ltd., 7 Blenheim Street, W.

MAHOGANY counter case wanted; 54 inches by about 17 inches wide. Young, Chemist, Newbridge, Ireland.

WANTED, second-hand personal weighing machines for cash. Write, Wilson, 15 Westbourne Road, Barnsbury, N.

WANTED, 1,000 gross 2-dram short rd. vials. For samples apply The Kraska Co., Ltd., 7 Blenheim Street, W.

WANTED, salicin in quantity; spot or forward delivery; lowest cash terms. Address, 193/71, Office of this Paper.

WANTED, "Chemist and Druggist," Vol. 88, No. 1 to 1916, December 31st. G. E. Stechert & Co., 2 Star Yard, W.C.

WANTED, second-hand vest pocket Kodak with good lens, or other small pocket camera. Huband, 23 Duke Street, Brighton.

TABLET machine (rotary), large size, wanted for power. State particulars and price to "J. M.," 84 New North Road, London, N. 1.

WANTED, 5 or 10 cwt. locust-bean meal. Send sample and state price delivered for cash, to J. Phillips, 21 Nelson Street, Greenwich, S.E.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

WANTED, boot-polish tins, to hold about ½ lb.; size about 4 in. by 1 in. We are also buyers of liquid metal-polish tins. Samples and prices to "Brytenup," Polish Works, Preston, Lancs.

WANTED, 28 lb. or 56 lb. glycerine; 2*s*. lb. offered; guaranteed to be used for purposes approved by Ministry of Munitions. J. W. Ramsden, 6 Wyatt Park Road, Streatham Hill, London, S.W. 2.

CIRCULAR labels and bands, suitable for tooth powders, boracic and zinc ointments; without name. Send samples and quantities for disposal to Lever's, Elver Works, Moreton Street, Manchester.

SURPLUS stock chemicals, drugs (these in original packages and unopened only), packed drugs, soaps, perfumes, sundries, etc. Lowest prices for cash prompt. Delmas & Co., 29/31, Lower High Street, Stourbridge.

WANTED, ointment jars, drug drawers, small-fronted show-case, counter, surplus stock of drugs, gold and stock labels; or would buy a neat, much-neglected business cheap for cash. Williams, 80 Conran Street, Harpurhey, Manchester.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.
12 ounce.
WHITE PHIALS, plain or teaspoons.
½ ounce. 1½ ounce.
1 " 2 "

Lowest Market Prices Charged.

BLUE LOTION BOTTLES, all sizes.

CORKS. Superior quality. No advance in price.
6 and 8 ounce ... ... 1s. per gross, in 6 gross bags.
Vials ... ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W.1,
or ISLINGTON BOTTLE COMPANY,
7 New Inn Yard, Tottenham Court Road, London, W.1.
Orders sent to either establishment have attention.
Established 100 years.
Bankers: London County and Westminster Bank, Bloomsbury Branch.

Minor Experiences.

London.

Having found your book "Minor Experiences" a great help in giving me a general idea of the examination, I now write my own, in the hope that it will be of use to others.

I arrived at Galen Place at the appointed hour feeling a bit "funky." I had not long to wait before the porter beckoned to all who were waiting in the yard to enter the Examination-hall, where I addressed an envelope to myself, and was promptly marched off to *Chemistry*, where the following paper awaited me:

(i.) Identify the substance No. 15.

(ii.) The sol. of iodine No. 15 is stronger than N/10. Prepare from it a N/10 solution, using for standardisation the pure arsenious anhydride provided. Ascertain how much of the N/10 solution of iodine you have prepared is equivalent to 20 c.c. of the solution of sod. thiosulphate No. 15.

The substance I had proved in three-quarters of an hour to be silicon oxide, a rather difficult "salt," and, so far as I know, out of the syllabus. My "vol." was quite a different matter, as it was very straightforward, but took time. I took a good two hours over it.

My *Dispensing*, in the afternoon, also proved quite ordinary, and consisted of the following:

Mitte 60 mils mucilage trag., B.P. 1914.

℞ Bism. carb.
Sod. bicarb. ... aa. ʒij.
P. trag. co. ... ... ℥ij.
Spt. am. co.
Tr. card. co. ... aa. ʒiij.
Inf. rhei ... ... ʒiv.
Aq. chlorof. ad ... ʒviij.
M. ft. mist.
Coch. mag. ij. t.d.s. p.c.

℞ Sod. arsenatis ... 0.5 gms.
Ferri et am. cit. 5 gms.
Aq. laurocerasi ... 100 gms.
Ft. sol. "For hypodermic use."

℞ Ae. arseniosi ... gr. $\frac{1}{60}$
Ext. cascar. ... gr. ½
Ferri sulph. exsic. ... ... gr. ij.
Ft. pil. j. Mitte xxiv. Involvulo in argente.

Send a belladonna breast-plaster 7 in. diameter.

Having received notice to attend for the "oral," I presented myself at the time required, and was first sent to pharmacy, after having sat from 2 o'clock to 2.30 on the "funk-form" considering my fate.

Pharmacy being my worst subject, I was thankful to see the end of it. The examiner showed me something which I failed to recognise. I discovered the next as liq. picis carb. How made? How make pix carb. præp.? Tr. valer. am.? Vin. ferri? Spt. am. fet.? Liq. hyd. perchlor.? Easton's syrup? Ingredients of conf. sulph. and tr. chlorof. et morph. co.? Strengths of emp. calefaciens, tr. bellad., ung. atropinæ, syr. chloral., inf. digitalis, tr. iodi fort., pil. ipecac. c. scillâ, and ext. opii liq.?

After sitting about two minutes on the "funk-form" again, the President told me to go to *Prescription-reading*. Translate scripts into full Latin, and detect overdoses; in the latter I failed on two occasions. The examiner drew my attention to them, and then "slapped" the following at me: Hyd. iod. rub., hyd. subchlor., cocainæ hyd., hyoscinæ hydrobrom., phosphorus, liq. hyd. perchlor., ext. ergot., ext. ergot. liq., sod. nitris, zinc. sulphas, pil. phosphori. I then had a common-sense calculation, which was:

Ae. arseniosi	2 per cent.
Strych. hyd.	5 per cent.
Sacch. lact.	q.s.

Send 12×4 gr. pdrs.

I worked this out on 48 gr. of total powder, and, of course, got the amount of strych. and arsenic to the second decimal place in grains. The examiner remarked that my theory was perfect, but that the "customer was waiting." I then realised that I ought to have found the quantities for 50 gr. total powder and rejected 2 gr.

Botany was my next subject. I felt very efficient. Shown lavender: natural order? How distinguish between *Labiatæ* and *Solanaceæ*? How many stamens in the latter and in *Leguminosæ*? How arranged? Fruit? Placentation? Shown taxus. To what class of plants does it belong? Difference between angiosperms and gymnosperms? Difference between moss and liverwort? First slide was a monocot. stem. Why? How distinguish stem from a root? What is a tuber? Are they always stems? Next slide was a graminaceous seed. What can you see? Exalbuminous or albuminous? Last slide was a transverse section of a flower-bud showing parietal placentation. What happens after water is absorbed by root of a plant?

I was then sent to *Materia Medica*. Shown chillies. Natural order? What do they contain? Where does the capsicin reside? What else do they contain? What other pungent drugs do you know? I mentioned ginger, pepper, etc. What does ginger contain? What is gingerol? Any resin? What is its odour due to? Recognise Paradise grains, black and white mustard. What contain? What does sinalbin form on hydrolysis? and the same with sinigrin? Do they contain anything else? What preparation does ol. sinapis essent. enter into officially? Shown senna-leaves. What do you know about the constituents? I remarked that there was considerable difference of opinion over that, to which he said, "Good answer." What did I think about the constituents of rhubarb-root? What is the astringent principle? The examiner said I had done very well, and I left him feeling very hopeful, and was then sent to *Chemistry* with Mr. Tickle. What is the action of Cl on alcohol? On aldehyde? How make aldehyde? Could I use $K_2Mn_2O_8$ to produce aldehyde from alcohol? What are the chief characteristics of aldehydes? How make aniline? What is the difference between aniline and nitro-benzene? Would I express my opinion as to what I should get if I heated CH_3COONa with soda-lime? I asked him for a piece of paper, and I then told him methane and calcium acetate. Action of heat on CH_3COONa, and of PCl_3 on aldehyde? He said, "I see you know your chemistry; you can go."

This being my last subject, I returned to the chairs and awaited the result with eagerness, feeling sure I had pulled it off: and I was quite right, for the President soon called my name out, and congratulated me on a successful examination. Throughout the examiners were exceptionally fair, and I maintain that there is really no need for any nervousness at all if a man knows his work reasonably well.—*One of the "Cyanides"* (94/34).

Britain's Pharmacists.

(In three Phases.)

I.

Let us recall those nigh-forgotten days,
The Days of Peace, that seem so long ago;
When all we strove for was to win the praise
Of fickle client, or to stem the flow
Of rapid orat'ry outpouring from the fount
Of Bloomsbury-hatched verbosity,
When prophecies of wealth on N.H.I. account,
Aroused a keen but futile curiosity.

II.

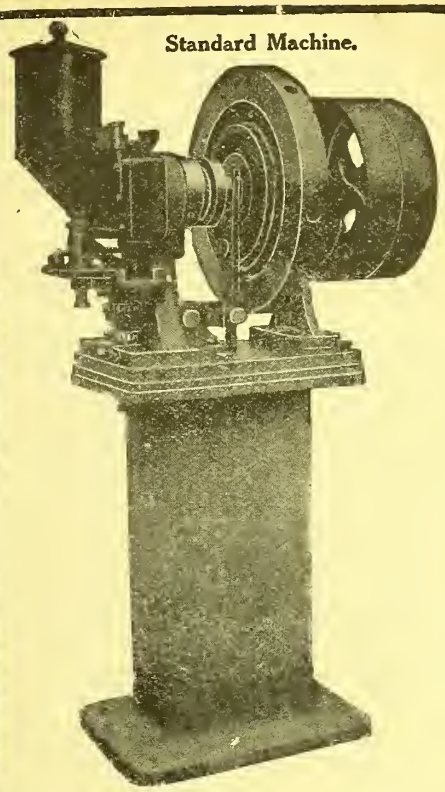
How great the change when, fired by War's alarms,
We fled the Counter and trooped to the Camp,
To serve the Nation's needs we wooed the charms
Of martial glory and forsook the Lamp
Of Pharmacy to scrub and dig with uncomplaining zeal,
To play with Death in trying to save Life;
And, though unrecognised, we still are proud to feel
We've done our part in this Unending Strife.

III.

Meanwhile the Lamp of Pharmacy undimmed,
Burns with a steadfast, clear, and lambent flame:
With careful hand the wick is daily trimmed
By cheerful Pharma-Sisters; thus the fame
Of Empire and Profession is retained intact
By skilful Ethel, Maud, or Marion;
They all are helping so that no pharmaceutical we lack,
Their motto being "Carry on; let's carry on!"

Printed for the Proprietors by SPOTTISWOODE, BALLANTYNE & CO. LTD., 1 New-Street Square, E.C. 4, and Published by the Proprietors at 42 Cannon Street, in the City of London.—March 31, 1917.

Standard Machine.



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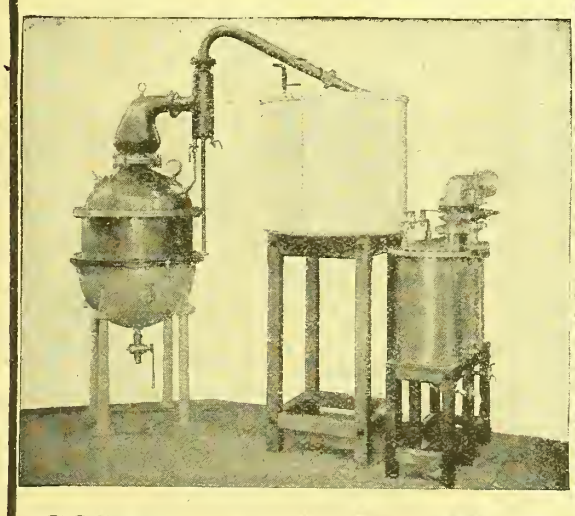
Machines in eight sizes suitable for all requirements for Tablets from 2 inches diameter to Hypodermics; also for Cubes, Octagons and fancy shapes.

PUNCHES AND DIES FOR ANY MAKE OF MACHINE.

Ointment Mills, Gelatine Pill Coaters, Gelatine Capsule Machinery and all general Pharmaceutical Machinery.

S. W. WILKINSON & CO.,
ENGINEERS LEICESTER.

COPPER
Vacuum Distilling Apparatus



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for FINE CHEMICALS, ESSENTIAL OILS, MALT EXTRACTS, Etc. Etc. Etc.

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Distillers' Engineers & Coppersmiths,
28-30 HIGH STREET, BROMLEY, E. 3.

Shears' Patent Mulser or Homogenizer

FOR PERFECTING EMULSIONS AFTER THEY HAVE BEEN MADE IN ANY FORM OF MIXING MACHINE,

AS USED BY MOST LEADING FIRMS

Price £29 10s. each.

A SIMILAR MACHINE, BUT FITTED WITH SPECIAL BACK GEAR, RATIO 4 to 1, FOR HOMOGENIZING VERY HEAVY EMULSIONS,

Price £39 10s. each.

BENNETT, SONS & SHEARS, Ld.
Engineers & Coppersmiths,
43 SHOE LANE,
LONDON, E.C.

HARVEY'S
GREAT REMEDIES FOR THE HORSE
WITH THE ADDED REMEDIES.
(Protected Prices.)

HARVEY'S ACONITE POWDERS.
For Chronic Cough, Broken Wind, Roaring, &c.
HARVEY'S WORM AND CONDITION POWDERS.
HARVEY'S WATTS' EMBROCATION, or Curb Bottle.
HARVEY'S WATTS' RED LOTION.
For Wounds.
HARVEY'S HAIR RESTORING OINTMENT.
HARVEY'S EDOS, or Tasteless Purging Powder.

THE ADDED REMEDIES:
HARVEY'S KOPPOS POWDER,
For Lymphangitis, or Weed, and Inflammations generally. In Tins, 5/- and 10/- each.
HARVEY'S THRUSH SPECIFIC.
In Tins 1/9 and 3/- each.
HARVEY'S HOOF OINTMENT.
In Tins, 3/- and 6/- each.
Also
HARVEY'S HAIR RESTORER (HUMAN).
A successful modification of the Veterinary Preparation. In Pots, 2/- each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.
HARVEY & COMPANY, LTD., DUBLIN.

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Is on the P.A.T.A. LIST.

Retail Prices
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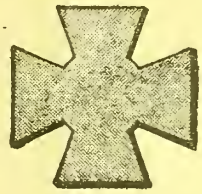

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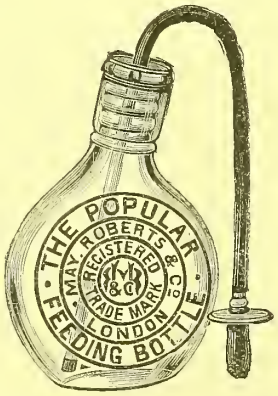

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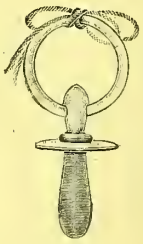
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